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1918

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OF THE

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EDITORIAL FOREWORD

The widespread approval with which the appearance of the First Edition of the ANNUAL CHEMICAL DIRECTORY OF THE UNITED STATES was received gave considerable satisfaction to those concerned with its publication and confirmed their judgment as to the usefulness and need of such a compilation.

It is our purpose to make each succeeding edition more accurate, more nearly complete, more comprehensive in scope and freer from blemishes than the preceding one and we shall spare no effort toward the accomplishment of this end. But no amount of labor on our part will succeed fully unless we have the continued active coöperation of manufacturers and users of, and dealers in, the articles listed and of the chemical community at large.

Especially do we invite coöperation in our attempt to do something in the way of standardizing the chemical nomenclature in common use in this country. We endeavor to list every chemical substance under its proper name, giving also the commonly used terms with cross references. This frequently involved considerable labor and expense and sometimes we are forced to violate our rule. The extraordinary confusion existing at present can be appreciated only by those who have attempted to make compilations similar to those in this DIRECTORY. We urge manufacturers at least not to *add to* the existing confusion by giving new names to products already in common use.

EDITOR.

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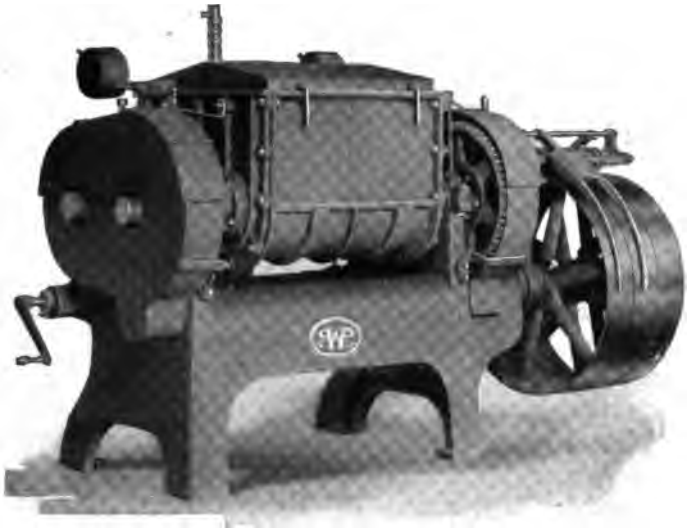

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PUBLISHER'S FOREWORD

Our second issue of the ANNUAL CHEMICAL DIRECTORY OF THE UNITED STATES presents a comprehensive review of the rapid development of the American chemical industry, illustrative of its progress, and descriptive of numerous incidental factors upon which it is dependent.

The 1918 edition contains data and information that show an approximate one hundred per cent increase over the information presented in the first edition.

We have continued our policy of recording all information from the direct source and listing all firms and individuals under our authorized headings without charge. We believe that this is the only thoroughly satisfactory method of answering the requirements of our subscribers in our efforts to establish the ANNUAL CHEMICAL DIRECTORY as the most dependable publication of its character in this particular field.

We will welcome constructive criticism as we wish to give thorough consideration to any suggestions of our readers that will tend to improve or increase the value of the book. We bespeak the coöperation of our readers to accomplish this end. We wish particularly to be advised of any products not listed that are being manufactured in this country, of new firms, and of incorrect listings.

For the able assistance and valuable suggestions rendered by subscribers of the previous edition; officers and members of various American and foreign scientific and technical societies, associations, and institutions; editors of technical and scientific journals; technical writers; chemists and engineers, whose advice and direction have added greatly to the practical value of this edition, we wish to express our hearty thanks.

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Contents: The field covered by the 1918 edition may be seen by an inspection of the contents. Contents will be located on the second page following.

Arrangement: An alphabetic arrangement has been followed in as far as possible. In Chapters I and III this arrangement has been further perfected by geographically grouping all locations mentioned: first, by states; Second, by cities; and then listing under the locality firms and individuals.

Listings, In Chapters I–IV, inclusive, the retailers, dealers, agents, and importers, are distinguished from the manufacturers by a star. In such instances a star, as *, indicates the individual or firm listed is not a manufacturer in so far as our records indicate. There are exceptions to this statement, of course, and such exceptions are due to the fact that the firm or individual is both a manufacturer and a dealer. The publishers disclaim liability for any listings noted.

Acids: In Chapter I, all acids are listed under Acids. Example: Acid, Acetic; Acid, Boric; Acid, Carbonic.

Salts: In Chapter II, all salts are listed under the metallic constituent. Examples: Sodium Acetate; Sodium Borate; Sodium Carbonate.

Nomenclature: Listings are usually recorded under the correct chemical name. Trade names, in instances, are given with cross index references to the correct chemical term. The terms benzol, toluol, etc., are employed with reference to benzene, toluene, and similar substances and their derivatives.

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As the ANNUAL CHEMICAL DIRECTORY is intended to be thoroughly comprehensive of all matters relating to chemical development, whether industrially, technically or scientifically, it is requested that all manufacturers, associations, and individuals forward direct to the publishers or managing editor listings, data, or information of scientific or technical interest.

All insertions are made without charge.

While the ANNUAL CHEMICAL DIRECTORY is intended to primarily cover the chemical industry in the United States, yet the service will be extended to cover the products of foreign firms and individuals when such insertions will prove of value to our subscribers.

Listings should be sent in under their correct chemical names. We will insert the trade name if desired, and cross index the reference to the correct chemical name.

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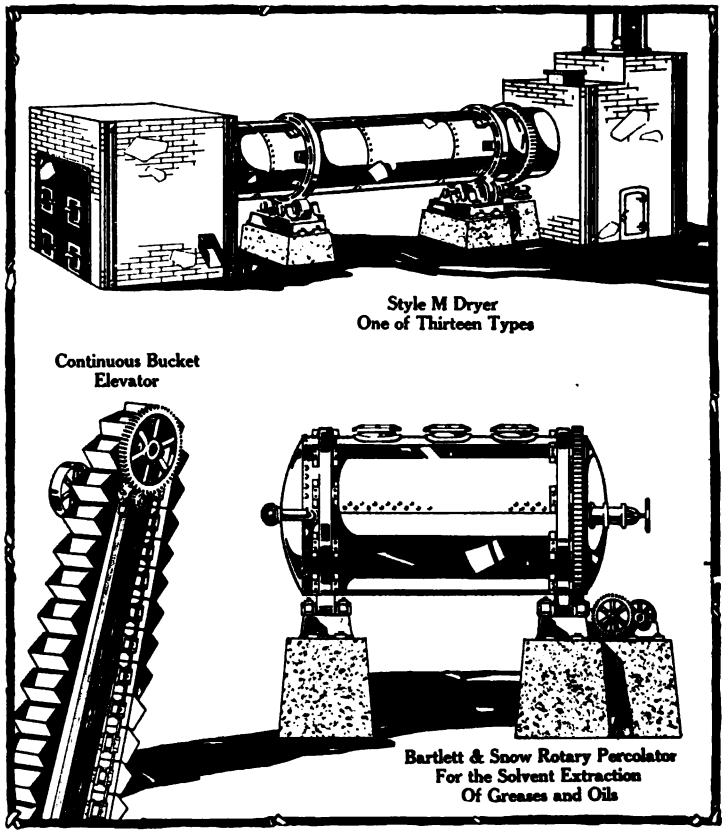

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Central Scientific Co., 460 E. Ohio St.

Acetamidosalol

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Acetanilid

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Mo., St. Louis
Monsanto Chemical Works, 1800 S. 2d St.
N. J., Bound Brook
American Chemical Products Co.
N. J., Maywood
Citro Chemical Co.
N. Y., New York City
Eimer & Amend, 205-211 Third Ave.
Hoffman-LaRoche Chemical Works, 440 Washington St.
Kalle Color & Chemical Works, 530 Canal St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
New Jersey Products, Inc., 165 Broadway
New York Quinine & Chemical Works, 114 William St.
*Nitrate Agencies Co., 102 Pearl St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
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*Williamson & Co., 120 Broadway
Ohio, Cleveland
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Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
*Smith, Kline & French Co., 431 Arch St.
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Fort Washington
Columbia Chemical Constructive Co.

Acetates *(see Specific Headings)*

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Chemical Co. of America, 28 Platt St.

Acetic Anhydride

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*American Commerce Co., Ltd., The, 19 St. Bride St.
Ill., Chicago
*Schaar & Co., 1025 S. State St.
Mich., Midland
Dow Chemical Co.
N. Y., New York City
*Drugs & Dyestuff Corporation, 120 Broadway
Merck & Co., 45 Park Place
Warner Chemical Co., 52 Vanderbilt Ave.
Ohio, Cleveland
Cleveland Cliffs Iron Co.
Pa., Philadelphia
*Powers-Weightman-Rosengarten Co.

Acetone

Cal., Chula Vista
Hercules Powder Co.
Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
Canada, Montreal, P. Q.
Canadian Electro Products Co., Ltd., 611 Power Bldg.
Ill., Chicago
*Adams Co., Fred C., 234 S. LaSalle Ave.
Mich., West Branch
*Mashek Chemical & Iron Co.
N. J., Passaic
*Wolf, Jacques & Co.
N. Y., Albany
Albany Chemical Co.
N. Y., Buffa'o
Wood Products Co.
N. Y., New York City
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Pa., East-Smithport
Norwich Chemical Co.
Pa., Mayburg
Tionesta Valley Chemical Co.
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Pa., Pittston
Wyoming Chemical Co.

Acetone, Methyl

N. Y., Brooklyn
*Miner-Edgar Co., 52 Warren St.
N. Y., Buffalo
Wood Products Co.

Acetone, Pure

N. Y., Brooklyn
*Miner-Edgar Co., 52 Warren St.

Acetophenone

N. Y., New York
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Acetphenetidin

Mo., St. Louis
Monsanto Chemical Works, 1800 S. 2d St.
N. J., Plainfield
Browne-Ferrer Co.
N. Y., New York City
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Acetyl Acetate, Iso, C. P.

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N. Y., New York City
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Conn., Naugatuck
Naugatuck Chemical Co., The
England, Smithy Bridge, near Rochdale
Dearhead Chemical Co.
England, London
*American Commerce Co., Ltd., The, 19 St. Bride St.
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Mass., Boston
Avery Chemical Co., 88 Broad St.
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Merrimac Chemical Co., 32 Broad St.
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Nusbaum Chemical Co.
Pa., Easton
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Acid, Acetic, U. S. P.

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Merck & Co., 45 Park Pl.
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Pa., Philadelphia
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Acid, Boracic (*see Acid, Boric*)

Acid, Boric

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Pacific Coast Borax Co.
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
Thorkilesyen-Mather Co., Harris Trust Bldg.
N. Y., Brooklyn
**Wiarda & Co., John C., 273 Greene St.
N. Y., New York City
Baker & Bro., H. J., 100 William St.
Cooper & Co., Chas., 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
Johnson & Johnson, 100 William St.
Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Pl.
McKesson & Robbins, Inc., 91 Fulton St.
Pacific Coast Borax Co., 100 William St.
*Pfizer & Co., Chas., 81 Maiden Lane
Roessler & Hasslacher Chemical Co., 100 William St.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co., 317-323 Electric Bldg.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
R. I., Providence
*Lewis, John D., 1209 Turks Head Bldg.

Acid, 2: 6: (Broenner)

H_2 Pat. under Acid adjectively
N. Y., New York
*Geisenheimer & Co., 134 Cedar St.

Acid, Brombenzoic

Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Burno

Cal., San Francisco
California Aniline & Chemical Co., 33 Clementina St.

Acid, Butyric

Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Acid, Cacodylic

N. Y., New York City
*Fougera & Co., E., 90 Beekman St.

Acid, Camphoric

Mo., St. Louis
Mallinckrodt Chemical Works
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Carbolic (*see Phenol*)

Acid, Carbolic, Crude

(*see also Phenol*)
Cal., San Francisco
Rogers Chemical Co., R.R., 527-535 Commercial St.
N. J., Elizabeth
Bayway Chemical Co.
N. Y., New York City
Barrett Co., The, 17 Battery Pl.
Wash., Tacoma
Standard Chemical Co.

Acid, Carbolic, Refined

(*see also Phenol*)
N. J., Elizabeth
Bayway Chemical Co.

Acid, Carbolic, U. S. P.

(*see Phenol, U. S. P.*)

Acid, Carbonic

N. Y., Brooklyn
Crescent Chemical Mfg. Co., Van Brunt and Beard Sts.

Acid, Carbonic—*cont.*

N. Y., New York City
American Carbonate Co., 430 E. 19th St.

Acids, C. P.

Ohio, Cleveland
Grasselli Chemical Co.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
*Thomas Co., Arthur H., W. Washington Sq.
N. Y., New York City
Eimer & Amend, 205-211 Third Ave.
General Chemical Co., 25 Broad St.
Merck & Co., 45 Park Pl.
Squibbs, E. R. & Sons, 80 Beekman St.

Acid, Chromic

N. Y., New York City
Cooper & Co., Chas., 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
Squibb & Sons, E. R., 82 Beekman St.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Acid, Chromotrop

N. Y., New York City
Chemical Co. of America, 28 Platt St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Acid, Cinnamic

N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.
Merck & Co., 45 Park Pl.
National Aniline & Chemical Co., 244 Madison Ave.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Citric

Cal., Corona
Citrus By-Products Co.
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Campbell, C. W., 11 Cliff St.
Eimer & Amend, 205-211 Third Ave.
Hoffman-La Roche Chemical Works, 440 Washington St.
*Ketchum & Co., 65 Fulton St.
*Lueders & Co., Geo., 218 Pearl St.
*Magnus, Maybee & Reynard, 257 Pearl St.
Marden, Orth & Hastings Co., 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*Pfaltz & Bauer, Inc., 300 Pearl St.
*Pfizer & Co., Chas., 81 Maiden Lane
*Rockhill & Vietor, 22 Cliff St.
*Tennant, C., Sons & Co., 100 William St.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
Smith, Kline & French Co.
R. I., Providence
*Lewis, John D.

Acid, Cresylic (*see also Cresol*)

England, Darlington
Parkin, Ness & Co., Quebec St.
Cal., San Francisco
Dill-Crosett, Inc., 235 Pine St.
Ill., Moline
Lewis, F. J., Mfg. Co.
N. J., Elizabeth
Bayway Chemical Co., Bayway
N. Y., New York City
Barrett Co., The, 17 Battery Pl.
Bush, Beach & Gent, Inc., 80 Maiden Lane
*Ketchum & Co., 65 Fulton St.
White Tar Co., The, 2 Cliff St.
*Jordan, William E., 11 Cliff St.
*Pfaltz & Bauer, Inc., 300 Pearl St.
Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cincinnati
Chatfield Mfg. Co., The
Pa., Philadelphia
Barrett Mfg. Co., Land Title Bldg.
R. I., Providence
*Lewis, John D.
Wash., Tacoma
Standard Chemical Co.

Acid, Delta

N. Y., New York
*Drug & Dyestuff Corporation, 120 Broadway

Acid, Diethylbarbituric

Ill., Chicago
Abbott Laboratories

Acid, Dipping

Ohio, Cincinnati
Chatfield Mfg. Co., The
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road

Acid, Fatty, all kinds

Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
Md., Baltimore
Virginia Red Oil Products Corporation
N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway
Southern Cotton Oil Co., 120 Broadway
Ohio, Cincinnati
Joslin-Schmidt Co., 3223 Spring Grove Ave.
Pa., Philadelphia
Baugh & Sons Co.

Acid, Formic

Mass., Boston
Merrimac Chemical Co., 32 Broad St.
N. J., Jersey City
Onyx Oil & Chemical Co.
N. Y., New York City
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
Kalle Color & Chemical Co., 530 Canal St.
Katzenbach & Bullock Co., 100 William St.
U. S. Industrial Alcohol Co., 27 William St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
R. I., Providence
*Lewis, John D.

Acid, Gallic

Conn., Hartford
Eastern Chemical Works
N. Y., Hastings-On-Hudson
Zinsser & Co.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Pl.
*Schering & Glatz, 150 Maiden Lane
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Gallic, Technical

N. Y., New York City
Cooper & Co., Chas., 194 Worth St.

Acid, Gamma

N. Y., New York City
Chemical Co. of America, 28 Platt St.

Acid, H

Ill., Quincy
Monroe Color & Chemical Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Herman & Herman, Inc., 6 Church St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*Williamson & Co., 120 Broadway
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Acid, Hydrobromic

Mich., Midland
Dow Chemical Co.
N. Y., New York City
Squibb & Sons, E. R., 80 Beekman St.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Acid, Hydrochloric

Cal., San Francisco
Mountain Copper Co., 332 Pine St.
San Francisco Chemical Co., 332 Pine St.
Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
Conn., Naugatuck
Naugatuck Chemical Co., The
England, London
Berk & Co., Ltd., F. W., 1 Fenchurch Ave.
Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
Metal Products Co., 100 S. Jefferson St.
Ill., Danville
Hegeler Bros.
Ill., LaSalle
Matheson & Hegeler Zinc Co.
Ill., Peru
Illinois Zinc Co.
Md., Baltimore
Davison Chemical Co., South and German Sts.
Thomson Chemical Co., Race and Winder Sts.
N. Y., New York City
*Wood, Inc., J. Early, 21 Platt St.
Mass., Boston
Avery Chemical Co., 88 Broad St.
Cochrane Chemical Co., 40 Central St.

Acid, Hydrochloric—*cont.*

Mass., Boston—cont.
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Merrimac Chemical Co., 32 Broad St.
Mass., Worcester
*Brewer & Co.
*Marble & Co., J. Russell
Mich., Detroit
Michigan Carbon Works, Carbon and Forman Aves.
Mo., Kansas City
National Zinc Co., Packers Station
Mo., St. Louis
Commercial Acid Co., Boatman's Bank Bldg.
Lambert Chemical Co., Railway Exchange Bldg.
N. Y., Albany
Albany Chemical Co.
N. Y., Brooklyn
Robinson Bros., Montrose and Seneca Aves.
Wiarda & Co., John C., 273 Green St.
N. Y., Buffalo
Contact Process Co., Abbott Road near Lee
N. Y., New York City
Beer, Sondheimer & Co., 61 Broadway
Butterworth-Judson Co., 61 Broadway
Cooper & Co., Chas., 194 Worth St.
Eimer & Amend, 205-211 Third Ave.
General Chemical Co., 25 Broad St.
*Gowing & Co., Inc., D. H., 47 W. 34th St.
Hooker Electrochemical Co., 40 Wall St.
Kalbfleisch Corp., Broadway and 6th St.
*Klipstein & Co., A., 644 Greenwich
*Marell Chemical Co., Inc., 25 Beaver St.
Merck & Co., 45 Park Pl.
N. Y., Troy
*Thompson Sons & Co., John L.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Barrett Mfg. Co., Land Title Bldg.
Harrison Works, 35th and Grays Ferry Road
Lennig & Co., Chas., 112 S. Front St.
Penna. Salt Mfg. Co., 115 Chestnut St.
Powers-Weightman-Rosengarten Co., 9th and Parrish St.
Pa., Warren
Riverside Acid Works (18°, 20°)
R. I., Providence
Arnold, Hoffman & Co.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Acid, Hydrochloric, C. P.

Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.

Acid, Hydrocyanic

N. Y., New York
Cooper & Co., Charles, 194 Worth St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Acid, Hydrofluoric

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Conn., Naugatuck
Naugatuck Chemical Co., The
Ill., Chicago
Metal Products Co., 100 S. Jefferson St.
Md., Baltimore
Thomson Chemical Co., Race and Winder Sts.
Mass., Boston
Cochrane Chemical Co.
N. J., Phillipsburg
Baker Chemical Co., J. T.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Cooper & Co., Chas., 194 Worth St.
Eimer & Amend, 205-211 Third Ave.
General Chemical Co., 25 Broad St.
*Harshaw, Fuller & Goodwin Co., 100 William St.
Kalbfleisch Corp., 31 Union Sq.
Katzenbach & Bullock Co., 100 William St.
*Ketchum & Co., 65 Fulton St.
U. S. Metal Refining Co., 42 Broadway
U. S. Smelting Co., Inc., 120 Broadway
Ohio, Cincinnati
Globe Chemical Co., 1135 Regent Ave.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin, Co., 317 Electric Bldg.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
Pa., Warren
Riverside Acid Works (30%, 32%, 48%, 52% and 60%)
Pa., York
Hydrofluoric Mfg. Co.

Acid, Hydrofluosilicic

N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
U. S. Smelting Co., Inc., 120 Broadway

Acid, Hypophosphorous

Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Lactic

Ill., Peoria
Woolner Distilling Co.
Mass., Boston
Avery Chemical Co., 88 Broad St.
N. J., Jersey City
Onyx Oil & Chemical Co.
N. Y., Long Island City
Oakes Mfg. Co.
N. Y., New York City
Holliday, Read & Sons, Ltd., 160 Franklin St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
*Pfaltz & Bauer, 330 Pearl St.
Merck & Co., 45 Park Pl.
Williamson & Co., 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
Pa., Bradford
American Acid & Alkali Co.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road
Powers-Weightman-Rosengarten Co.

Acid, Linoleic

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Acid, Metanilic

N. Y., New York City
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Acid, Meta Titanic

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Acid, Mixed

Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
Mo., St. Louis
Commercial Acid Co., Boatmen's Bank Bldg.
Lambert Chemical Co., Railway Exchange Bldg.
N. J., Newark
Butterworth-Judson Co. Foot Point Plum Lane
N, Y., Buffalo
Contact Process Co., Abbott Road, nr. Lee
N. Y., New York City
General Chemical Co., 25 Broad St.
*Williamson & Co., 120 Broadway
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Philadelphia
Harrison Works, Grays Ferry Road and 35th St.
Pennsylvania Salt Mfg. Co., 115 Chestnut St.

Acid, Molybdic

Colo., Denver
Chemical Products Co., 612 Majestic Bldg.
Del., Wilmington
Mineral Products Mfg. Co.
Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
N. Y., New York City
Eimer & Amend, 205-211 Third Ave.
Holz, Herman A., 50 Church St.
Squibb & Sons, E. R., 80 Beekman St.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Pa., Primos
Primos Chemical Co.

Acid, Monochloracetic

Mich., Midland
Dow Chemical Co.

Acid, Monosulfonic, F 2 : 7

N. Y., New York City
*Geisenheimer & Co., 134 Cedar St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Acid, Muriatic (*see Acid, Hydrochloric*)

Acid, Naphthionic

N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Geisenheimer & Co., 134 Cedar St.
Marden, Orth & Hastings Co., 61 Broadway
Pa., Reading
Althouse Chemical Co.
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Acid, Neville and Winther's

N. Y., New York City
*Geisenheimer & Co., 134 Cedar St.

Acid, 1, 3, 6

Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Acid, Nitric

Cal., San Francisco
Mountain Copper Co. 332 Pine St.
San Francisco Chemical Co., 332 Pine St.
Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
Conn., Naugatuck
Naugatuck Chemical Co., The
England, London, E. C. 3
Berk & Co., Ltd., F., W. 1 Fenchurch Ave.
Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
Metal Products Co., 100 S. Jefferson St.
Ill., Danville
Hegeler Bros.
Ill., Depue
Mineral Paint Zinc Co.
Ill., LaSalle
Matheson & Hegeler Zinc Co.
Ill., Peru
Illinois Zinc Co.
Md., Baltimore
Davison Chemical Co., South and German Sts.,
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
Avery Chemical Co., 88 Broad St.
Cochrane Chemical Co., 40 Central St.
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Merrimac Chemical Co., 32 Broad St.
Mass., Worcester
*Brewer & Co.
*Marble & Co., J. Russell
Mich., Detroit
Detroit Chemical Works, 238 Junction Ave.
Mo., Kansas City
National Zinc Co., Packers Station
Mo., St. Louis
Commercial Acid Co., Boatmen's Bank Bldg.
Lambert Chemical Co., Railway Exchange Bldg.
*Salzgeber, George H., 109 St. George St.
N. J., Bound Brook
King Chemical Co.
N. J., Phillipsburg
Baker Chemical Co., J. T.
N. Y., Albany
Albany Chemical Co.
N. Y., Brooklyn
Robinson Bros., Montrose and Seneca Aves.
Wiarda & Co., John C., 273 Green St.
N. Y., Buffalo
Contact Process Co., Abbott Road, near Lee
N. Y., New York City
American Cyanamid Co., 511 Fifth Ave.
Butterworth-Judson Corp., 61 Broadway
*Beer, Sondheimer & Co., 61 Broadway
Cooper & Co., Charles, 194 Worth St.
Eimer & Amend, 205–211 Third Ave.
General Chemical Co., 25 Broad St.
Kalbfleisch Corp., 30 Union Sq. W.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Pl.
*Willamson & Co., 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Troy
Thompson Sons & Co., John L.
Ohio, Cincinnati
Globe Chemical Co., 1135 Regent Ave.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Emporium
Cameron Powder Mfg. Co.
Pa., Philadelphia
Barrett Mfg. Co., Land Title Bldg.
Harrison Works, 35th and Grays Ferry Road
Lennig, Chas., & Co., 112 S. Front St.
Penna. Salt Mfg. Co., 115 Chestnut St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Pa., Warren
Riverside Acid Works 36° and 42° BE
R. I., Providence
Arnold, Hoffman & Co.

Acid, Nitric, Chemically Pure

Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.

Acid, Nitrohydrochloric

Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Nucleinic

Mich., Detroit
Digestive Ferments Co., 16 Locust St.

Acid, Oleic

Ill., Chicago
Armour Fertilizer Works
Morris & Co.

Acid, Oleic—*cont.*

Md., Baltimore
Virginia Red Oil Products Corp.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Ohio, Celina
Celina Stearic Acid Co.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Ohio, St. Bernard
Werk Co., M.

Acid, Orange (Wool)

Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Acid, Oxalic

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
Rhodes & Co., James H., 157 W. Austin Ave.
Victor Chemical Works, 1810 Fisher Bldg.
Md., Baltimore
Bloede Co., Victor G.
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
Avery Chemical Co., 88 Broad St.
United Indigo & Chemical Co., 176 Federal St.
Mass., Worcester
*Brewer & Co.
*Marble & Co., J. Russell
Mich., Charlotte
Charlotte Drug Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
Robinson Bros., Montrose and Seneca Ave.
N. Y., New York City
*Campbell, C. W., 11 Cliff St.
Cooper & Co., Charles, 194 Worth St.
*Freeman & Co., R. B., 96 Wall St.
*Hirsh & Sons, L., 368 Greenwich St.
Holliday, Read & Sons, Ltd., 160 Franklin St.
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
Merck & Co., 45 Park Pl.
Rhodes & Co., James H., 162 William St.
*Riker, J. L. & D. S., 19 Cedar St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Tennant Sons & Co., C., 100 William St.
*Van Brunt & Co., J. A., 114 John St.
White Tar Co., Cliff and John Sts.
U. S. Industrial Alcohol Co., 27 William St.
Squibb & Sons, E. R., 82 Beekman St.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Troy
Thompson, Sons & Co., John L.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Bradford
American Acid & Alkali Co.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
Smith, Kline & French Co.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blytheswood Sq.

Acid, Oxalic, Technical

England, London, E. C. 3
Berk & Co., Ltd., F. W., 1 Fenchurch Ave.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Acid, Perchloric

Mich., Midland
Dow Chemical Co.
N. Y., Batavia
Genesee Chemical Co.

Acid Phosphates

Ala., Troy
Standard Chemical & Oil Co.
Fla., Jacksonville
Painter Fertilizer Co., E. I.
Ga., Savannah
Barker Chemical Co.
Lang & Co., J. M.
Reliance Fertilizer Co.
Southern Fertilizer & Chemical Co.
Ill., Peoria
Colburn, Birks & Co.
Md., Baltimore
Davison Chemical Co., South and German Sts.
Hubbard Fertilizer Co., 802 Keysre Bldg.
Miss., Gulfport
Gulfport Fertilizer Co.

Acid Phosphates—*cont.*

N. Y., New York City
Coe-Mortimer Co., 51 Chambers St.
General Chemical Co., 25 Broad St.
Grasselli Chemical Co., 80 Maiden Lane
Heller, Hirsh & Co., 62 William St.
*Riker, J. L. & D. S., 46 Cedar St.
Warner Chemical Co., 52 Vanderbilt Ave.
*Wilckes-Martin-Wilckes Co., 135 William St.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Ohio, Sandusky
Jarecki Chemical Co.
Pa., Philadelphia
Baugh & Sons Co., 20 S. Delaware Ave.
R. I., Providence
Rumford Chemical Works, 231 S. Main St.
Va., Norfolk
Atlantic Chemical Corp.
Columbia Guano Co.
Royster Guano Co., F. S.
Va., Richmond
Richmond Guano Co.

Acid Phosphatic

R. I., Providence
Rumford Chemical Works

Acid, Phosphoric

England, Manchester
Victors, Ltd., Victoria Bldg.
Ga., Savannah
Barker Chemical Co.
Ill., Chicago
Armour Fertilizer Works
Daigger & Co., A., 52-56 W. Kinzie St.
Victor Chemical Works, 1810 Fisher Bldg.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mich., Detroit
Michigan Carbon Works, Carbon and Forman Aves.
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
Bowker Chemical Co., 60 Trinity Pl.
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
*Innis, Speiden & Co., 46 Cliff St.
International Agricultural Corp., 165 Broadway
*Katzenbach & Bullock Co., 100 William St.
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
*Magnus, Mabee & Reynard, 257 Pearl St.
Merck & Co., 45 Park Pl.
Warner Chemical Co., 52 Vanderbilt Ave.
*Wilckes-Martin-Wilckes Co., 135 William St.
United Aniline & Chemical Works, Inc., 377 Broadway
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Acid, Phosphoric, Anhydrous

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Acid, Phosphoric, Glacial

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Acid, Phthalic

Cal., Berkeley
Catalytic Chemical Co.
Ill., Chicago
Gas Oil Co. of Indiana, People's Gas Bldg.
N. Y., Hastings-On-Hudson
Zinsser & Co.
N. Y., New York City
Squibb & Sons, E. R., 82 Beekman St.
*Williamson & Co., 120 Broadway

Acid, Phthalic, Anhydride

N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
Barrett Co., 17 Battery Pl.
*Chromos Chemical Co., Inc., Aeolian Hall

Acid, Picramic

N. Y., New York City
*Hemingway, Inc., Frank, 115 Broadway
N. Y., Hastings-on-Hudson
*Zinsser & Co.

Acid, Picric

N. J., Perth Amboy
May, F. L., Chemical Co.
Ingersoll-Rand Co.
N. J., Phillipsburg
Baker, J. F., Chemical Co.
N. Y., New York City
Aetna Explosive Co., 120 Broadway
Butterworth-Judson Corp., 61 Broadway
DuPont Chemical Works, 120 Broadway

Acid, Picric—*cont.*

N. Y., New York—cont.
Holliday, Read & Sons, Ltd., 160 Franklin St.
*Klipstein & Co., 644 Greenwich St.
*Williamson & Co., 120 Broadway
Ohio, Sandusky
Hord Color Products Co., The
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Prussic

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Acid, Pyrogallic

Conn., Elmwood
Eastern Chemical Works
N. Y., Hastings-on-Hudson
*Zinsser & Co.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
*Klipstein & Co. A., 644 Greenwich St.
Hoffman-La Roche Chemical Co., 440 Washington St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
*Schering & Glatz, 150 Maiden Lane
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Pyrogallic, U.S.P.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Acid, Pyroligneous

Ga., Savannah
National Rosin Oil & Size Co.
La., New Orleans
American Turpentine & Tar Co.
Mass., Boston
Avery Chemical Co., 88 Broad St.
Mo., St. Louis
*Salzgeber, George H., 109 St. George St.
N. C. Wilmington
Spirittine Chemical Co.
N. J., Belleville
Eastwood Chemical Co.
N. Y., New York City
Georgia Pine Turpentine Co of New York, 158 Perry St.
*Klipstein & Co., 644 Greenwich St.
*Lengfelt & Co., F. H., 100 Maiden Lane
McKesson & Robbins, Inc., 91 Fulton St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
R. I., Providence
Arnold, Hoffman & Co.

Acid, R

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.

Acid Red, 4B and 6B: (Passaic)

N. J., Passaic
American Color Mfg. Co., Gregory Ave. and River Rd.

Acid, Salicylic

Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Monsanto Chemical Works, 1800 S. 2d St.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
*Drugs & Dyestuff Corp., 120 Broadway
DuPont Chemical Works, 120 Broadway
Edgertyn Aniline Corp., 118 William St.
*Hemingway, Inc., Frank, 115 Broadway
*Herman & Herman, Inc., 6 Church St.
Heyden Chemical Works, 135 William St.
Johnson & Johnson, 100 William St.
*Ketchum & Co., 65 Fulton St.
Hoffman-La Roche Chemical Works, 440 Washington St.
Marden, Orth & Hastings Co., 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
*Nitrate Agencies Co., 102 Pearl St.
*Peters, White & Co., 55 John St.
*Schering & Glatz, 150 Maiden Lane
*Williamson & Co., 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
N. Y., North Tonawanda
Synthetic Mfg. Co.
Ohio, Cincinnati
Merrell Chemical Co., Wm., 5th and Pike Sts.
Pa., Carnegie
Aetna Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Smith, Kline & French Co., 431 Arch St.

Acid, Salicylic, U.S.P.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Acid, Sludge

N. Y., New York City
DuPont Chemical Works, 120 Broadway

Acid, Stearic

Ill., Chicago
*Clark, Frank C., 316 W. Kinzie St.
Morris & Co.
Swift & Co.
Md., Baltimore
Virginia Red Oil Products Corp.
Mont., Helena
Perry & Co., C. T.
N. Y., Brooklyn
Bendick Co., The, 60 York St.
N. Y., New York City
Bromund Co., E. A., 356 W. Broadway
Century Stearic Acid Candle Works, 380 South St.
*Elbert & Co., Produce Exchange
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
McKesson & Robbins, Inc., 91 Fulton St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Marden, Orth & Hastings Co., 61 Broadway
Van Brunt & Co. Inc., J. A., 114 John St.
*Pfaltz & Bauer, Inc., 300 Pearl St.
Plymouth Organic Laboratories, 65 Ann St.
*Randell, F. L., & Co., 197 Pearl St.
*Rockhill & Vietor, 22 Cliff St.
*Smith & Nichlos, 121 Maiden Lane
*Standard Wax & Import Co., 95 William St.
*Strohmeyer & Arpe Co., 139 Franklin St.
*Van Dyk, L. A., 90 W. Broadway
Ohio, Celina
Celina Stearic Acid Co.
Ohio, Cincinnati
Emery Candle Co., 414 Walnut St.
*Harkness & Cowing Co., Murray Ave. and Carthage Peak
Ohio, St. Bernard
*Werk Co., M.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
Martin, D. B., Co.
Pa., Pittsburgh
Falk Co.

Acid, Stearic, Single and Double Pressed

Ohio, Cincinnati
Proctor & Gamble Co., Gwyne Bldg.

Acid, Succinic

Ill., Peoria
Woolner & Co.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Mallinckrodt Chemical Works
Merck & Co., 45 Park Pl.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Sulphanilic

N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Geisenheimer & Co., 134 Cedar St.
Marden, Orth & Hastings Co., 61 Broadway
Merck & Co., 45 Park Pl.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Sulphuric

Ala., Montgomery
Alabama Chemical Co.
Ala., Troy
Standard Chemical & Oil Co.
Ariz., Douglas
Calumet & Arizona Copper Co.
Ark., Little Rock
Arkansas Fertilizer Co.
Cal., Berkeley
Pacific Guano & Fertilizer Co.
Cal., San Francisco
Barbour Chemical Works
Mountain Copper Co., Ltd., 332 Pine St.
Stauffer Chemical Co., 624 California St.
Canada, Drummonville, Quebec
Aetna Explosives Co.
Canada, Sault Ste. Marie
Algoma Steel Corp., Ltd.
Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts. (60°, 66°, 98° Oleum)
Colo., Pueblo
Norcross Chemical Co.
Conn., Naugatuck
Naugatuck Chemical Co. (50°, 60°, and 66°)
Del., Wilmington
By-Product Division E. I. duPont de Nemours Co.
England, London, E. C. 3
Berk & Co., Ltd., F. W., 1 Fenchurch Ave.
England, Manchester
Spence & Sons, Ldt., Peter
Fla., Jacksonville
Wilson & Toomer Fertilizer Co.

Acid, Sulphuric—*cont.*

Ga., Atlanta
Swift & Co., Fertilizer Works
Ga., Augusta
Southern States Phosphate & Fertilizer Co.
Ga., Macon
McCabe Bros.
Ga., Newman
Coweta Fertilizer Co.
Ga., Savannah
Barker Chemical Co. (60° and 66°)
Phosphate Mining Co.
Reliance Fertilizer Co. (60° and 66°)
Savannah Guano Co.
Southern Fertilizer & Chemical Co.
Willcox-Ives & Co.
Ill., Danville
Hegeler Bros.
Ill., East St. Louis
American Zinc Co. of Illinois
Commercial Acid Co.
Granby Smelting & Refining Co.
Ill., LaSalle
Matthieson & Hegeler Zinc Co.
Ill., Peru
Illinois Zinc Co.
Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
Metal Products Co., 100 S. Jefferson St.
Mineral Point Zinc Co., 140 S. Dearborn St.
Victor Chemical Works
Ky., Louisville
Federal Chemical Co.
La., New Orleans
New Orleans Acid & Fertilizer Co.
Mass., Boston
Avery Chemical Co., 88 Broad St.
BradleyFertilizer Works, 92 State St.
Cochrane Chemical Co.
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Merrimac Chemical Co., 32 Broad St.
Mass., Lowell
Swift Fertilizer Co.
Md., Baltimore
Baugh Chemical Co.
Davison Chemical Co.
Rasin Monumental Co., National Marine Bank Bldg.
Standard Acid Works
Thomsen Chemical Co., Race and Winder Sts.
Mich., Detroit
Detroit Chemical Works, 238 Junction Ave.
Michigan Carbon Works, Carbon and Forman Aves.
Mo., Kansas City
National Zinc Co., Packers Station
Mo., St. Louis
American Zinc, Lead & Smelting Co., Pierce Bldg.
Commercial Acid Co., 1916 Boatmen's Bank Bldg.
Mallinckrodt Chemical Works, 3600 N. 2d St.
Lambert Chemical Co., Railway Exchange Bldg.
Miss., Tupelo
Tupelo Fertilizer Factory
N. J., Bound Brook
King Chemical Co.
N. J., Jersey City
Mulane Chemical Co.
N. J., Newark
Listers Agri. Chemical Works, Lister Ave.
N. J., Phillipsburg
Baker Chemical Co., J. T.
N. J., Warners
Ammo-Phos Corporation, The
N. Y., Albany
Albany Chemical Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., Buffalo
Contact Process Co., Abbott Rd. near Lee
N. Y., New York City
American Agricultural Chemical Co., 2 Rector St.
American Cyanamid Co., 511 Fifth Ave.
American Metal Co., Ltd., 61 Broadway
American Smelting & Refining Co., 120 Broadway
Butterworth-Judson Co., 61 Broadway
Cooper & Co., Charles, 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
Eimer & Amend, 205-211 Third Ave.
General Chemical Co., 25 Broad St.
*Gowing & Co., Inc., D. H., 47 W. 34th St.
*Herman & Herman, Inc., 6 Church St.
International Agricultural Corp., 165 Broadway
Kalbfleisch Corp., 31 Union Sq. W.
Marden, Orth & Hastings Co., 61 Broadway
*Marell Chemical Co., Inc., 25 Beaver St.
Merck & Co., 45 Park Pl.
Mutual Chemical Co. of America, 55 John St.
New Jersey Zinc Co., 55 Wall St.
*Peters, White & Co., 55 John St.
Union Seed & Fertilizer Co., 65 Broadway
*Williams & Son, Inc., J. T., 100 Broadway

Acid, Sulphuric—*cont.*

N. Y., New York City—cont.
*Williamson & Co., 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
N. C., Charlotte
Combee Fertilizer Co.
N. C., Wilmington
Navasse Guano Co.
Ohio, Cincinnati
Globe Chemical Co.
Jarecki Chemical Co.
Ohio, Cleveland
Cleveland-Cliffs Iron Co.
Grasselli Chemical Co.
Ohio, Columbus
Farmers Fertilizer Co., The
Pa., Bradford
American Alkali & Acid Co.
Pa., Donora
American Steel & Wire Co.
United States Steel Corp.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road
Pennsylvania Salt Mfg. Co.
Powers-Weightman-Rosengarten Co.
Lennig, Charles, Bridesburg
South Philadelphia Fertilizer Works
Pa., Warren
Riverside Acid Works (50°, 60° and 66°)
Pa., York
York Chemical Works
S. C., Charleston
Anderson Phosphate & Oil Co.
Etiwan Fertilizer Co.
McCabe Chemical Co.
Tenn., Copperhill
Tennessee Copper Co.
Tenn., Isabella
Ducktown Sulphur, Copper & Iron Co., Ltd.
Tenn., Nashville
Read Phosphate Co.
Utah, Garfield
Garfield Smelting Co.
Utah Copper Co.
Va., Norfolk
Royster Guano Co., F. S.
Va., Richmond
Richmond Guano Co., 705 Traveler's Bldg.
Virginia-Carolina Chemical Co.
W. Va., Fairmont
Fairmont Chemical Co.

Acid, Sulphuric, C.P.

Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
N. Y., Buffalo
Contact Process Co.
N. Y., New York City
*Beer, Sondheimer & Co., 61 Broadway
Cooper & Co., Charles, 194 Worth St.

Acid, Sulphuric, Fuming

Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
Mo., St. Louis
Commercial Acid Co., 1906 Boatman's Bank Bldg.
Lambert Chemical Co., Railway Exchange Bldg.
N. Y., Buffalo
Contact Process Co., Abbott Road, near Lee
N. Y., New York City
*Alexander & Co., C. S., 61 Broadway
Butterworth-Judson Co., 61 Broadway
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road

Acid, Sulphurous

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
England, London
Berk & Co., F. W., Fenchurch Ave.
Md., Baltimore
Hancock & Son, John F., 4 S. Howard St.
N. J., Bound Brook
King Chemical Co.
N. Y., New York City
*Beggs & Co., E. J., 92 William St.
Butterworth-Judson Corp., 61 Broadway
Klipstein & Co., A, 644 Greenwich St.
*Williamson & Co., D. D., 86 Fulton St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Scotland, Glasgow
Gemmill & Co., Wm. N., 142 Queen St.

Acid, Sulphurous, Liquified Anhydrous

Wis., Marinette
Ansul Chemical Co.

Acid, Sulphurous, Technical

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Acid, Tannic

England, Manchester
Willcocks & Co., Ltd., H. S., 5, Beaver St.
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.

Acid, Tannic—*cont.*

N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., Hastings-on-Hudson
*Zinsser & Co.
N. Y., Long Island City
Oakes Mfg. Co
N. Y., New York City
*Bredt & Co., F., 240 Water St.
Edgertyn Aniline Corp., 118 William St.
Hoffman-La Roche Chemical Co., 440 Washington St.
Holliday, Read & Sons, Ltd., 160 Franklin St.
Kalle & Co., 530 Canal St.
*Katchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
Merck & Co., 45 Park Pl.
*Pfizer & Co., Charles, 81 Maiden Lane
Squibb & Sons, E. R., 82 Beekman St.
*Van Brunt & Co., Inc., J. A., 114 John St.
Warner Chemical Co., 52 Vanderbilt Ave.
White Tar Co., 4 Cliff St.
United Aniline & Chemical Works, Inc., 377 Broadway
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
*Andreykovicz & Dunk, 58 N. Front St.
Powers-Weightman-Rosengarten Co. 9th and Parrish Sts.
Smith, Kline & French Co.
Pa., Pittstown
Luzerne Chemical Co.
R. I., Providence
Arnold, Hoffman & Co.
*Lewis, John D.

Acid, Tartaric

Cal., San Francisco
American Cream Tartar Co., 624 California St.
Braun-Knecht-Heimann Co., 584 Mission St.
England, Accrington
Phoenix Chemical Co., Ltd., Jackson St., Church
Md., Baltimore
*Walter Co., Edw., J., 803 American Bldg.
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
*Bredt & Co., F., 240 Water St.
Edgertyn Aniline Corp., 118 William St.
*Harshaw, Fuller & Goodwin Co.
Holliday, Read & Sons, Ltd., 160 Franklin St.
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
*Lathrop & Co., Inc., H. R., 200 Water St.
Marden, Orth & Hastings Co., 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
*Pfizer & Co., Chas., 81 Maiden Lane
Tartar Chemical Co., 135 William St.
*Tennant Sons & Co., C., 100 William St.
White Tar Co., 4 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
R. I., Providence
Arnold, Hoffman & Co.
*Lewis, John D.

Acid, Titanic (Meta)

Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Sq.

Acid, Toluic (o)

N. Y., New York City
Merck & Co., 45 Park Pl.

Acid, Trichloracetic

Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Acid, Tungstic

Colo., Boulder
Black Metal Reduction Co.
Tungsten Products Co.
Del., Wilmington
Mineral Products Mfg. Co., Inc.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.
Pa., Primos
Primos Chemical Co.

Acid, Valeric

Pa., Philadephia
Powers-Weightman-Rosengarten Co.

Acid, White

N. Y., New York City
General Chemical Co., 25 Broad St.

Acid, Wood

Mo., St. Louis
*Salzgeber, George H., 109 St. George St.
N. Y., Binghamton
Corbett & Co., M. J.
Corbett & Stuart
N. Y., Methol
Leighton Co., Arthur
Pa., Susquehanna
Pennsylvania Chemical Co.
Wayne Chemical Co.

Acid, Yellow (Wool)

N. Y., New York City
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Aconitine

Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Adhesives

Conn., Danbury
Connecticut Glue Co.
Ill., Chicago
Armour Glue Works, 3130 Benson St.
Clarkson Glue Co, 3259 Shelds Ave.
Cudahy Packing Co.
Darling & Co., Union Stock Yards
Hirsh, Hall & Co., 111 W. Washington St.
Morris & Co., Union Stock Yards
National Glue Co., Railway Exchange Bldg.
Swift & Co., Union Stock Yards
Union Casein Co., 601 W. 80th St.
Wilson & Co., 41st and Ashland Ave.
Mass., Boston
Carter's Ink Co., 1st and Athenaeum Sts.
Commonwealth Glue Co., 40 N. Market St.
Feculose Co. of America, 70 Kilby Ave.
Mass., Gloucester
Russia Cement Co.
Mo., St. Louis
American Glue Co., 410 Elm Ave.
Reardon Glue Mfg. Co., 127 Clinton St.
N. Y., New York City
Casein Mfg. Co., 13 Park Row
Milligan & Higgins Glue Co., 222 Front St.
National Glue & Gelatine Works, 2 West End Ave.
National Gum & Mica Co., 59th and 11th Ave
Peter Cooper's Glue Factory, 28th and 11th Ave.
Ohio, Cincinnati
Adhesive Products Mfg. Co., 1724 Central Ave.

Adrenalin

Mich., Detroit
Parke, Davis & Co.

Aerolacq

N. Y., New York
Chemical Co. of America, 28 Platt St.

Agar Agar

N. Y., New York City
*American Trading Co., 25 Broad St.
*Eimer & Amend, 205-211 Third Ave.
*Klipstein & Co., A., 544 Greenwich St.
*Lehn & Fink, Inc., 120 William St.
*McKesson & Robbins, Inc., 91 Fulton St.
Mitsui & Co., 25 Madison Ave.
*Rockhill & Vietor, 22 Cliff St.
*Schieffelin & Co., 170 William St.
*Zinkeisen & Co., 135 William St.
Pa., Philadelphia
*Smith, Kline & French Co.

Albasol

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Alboline

N. Y., New York City
McKesson & Robbins, Inc., 91 Fulton St.

Albumen

Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
Hirsh, Hall & Co., Westminster Bldg.
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
N. Y., New York City
*Arnhold, Karberg & Co., China, 21 State St.
*Fuerst Bros. & Co., 2 Stone St.
*Innis, Speiden & Co., 46 Cliff St.
*Jardine, Matheson & Co., Ltd., 63 Wall St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

Albumen—*cont.*

N. Y., New York City—cont.
National Milk Co., 11 Pine St.
Roessler & Hasslacher Chemical Co., 100 William St.

Ohio, Cincinnati
Berghäusen Chemical Co., E., 307 E. 2d St.

Alcohol, Denatured

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Classen Chemical Co.

D. C., Washington
Corby Co., The

Ill., Chicago
Central Commercial Co.

Ill., Peoria
Clarke Bros. & Co.
Woolner Distilling Co.

La., New Orleans
American Alcohol Co.
Jefferson Distilling & Denaturing Co.

Md., Baltimore
Canton Corn Products Co.
*Walter Co., Edw., J., 803 American Bldg.

N. Y., Brooklyn
*Miner-Edgar Co., 52 Warren St.

N. Y., Buffalo
Wood Products Co.

N. Y., Hancock
Kerry Co., Thomas

N. Y., New York City
Alcohol Utilities Co., 40 Exchange Pl.
*American Distributing Co., 750 Washington St.
Cooper & Co., Charles, 194 Worth St.
Fleischmann Co., 699 Washington St.
Georgia Pine Turpentine Co. of New York, 158 Perry St.
*Gray & Co., William S., 76 William St.
Industrial Chemical Co., 200 Fifth Ave.
International Alcohol Corporation
*Salomon & Bro., L. A., 216 Pearl St.
U. S. Industrial Alcohol Co., 27 William St.
Webb & Son, James A., 50 Stone St.
*Williamson & Co., 120 Broadway

Alcohol, Grain (*see Alcohol, Ethyl*)

Alcohol, Solidified

N. Y., Brooklyn
*Sternau & Co., S., 160 John St.

Alcohol, Wood (*see Alcohol, Methyl*)

Alcohol 90%

N. Y., New York City
Standard Distilling & Distributing Co., 27 William St.

Alcohol, Amyl

Conn., Stamford
Celluloid Zapon Co.

D. C., Washington
Corby Co., The

Ill., Peoria
Woolner Distilling Co.

Ind., Lawrenceburg
Walsh & Co., James

Mich., Midland
Dow Chemical Co.

N. J., Carlstadt
Franco-American Chemical Co.

N. J., Wallington
Anderson Chemical Co.

N. Y., New York City
American Alcohol Co., Inc.
DuPont Chemical Works, 120 Broadway
*Sloan & Russell, Inc., 132 Nassau St.
U. S. Industrial Alcohol Co., 27 William St.
*Van Brunt & Co., Inc., J. A., 114 John St.
*Williamson & Co., 120 Broadway

Pa., Pittsburgh
Hamburger Distillery Limited, 706 Arrott Bldg.

Alcohol, Amyl, Refined

Ill., Chicago
Van Schaack Bros. Chemical Works

Alcohol, Benzyl

N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.

Alcohol, Butyl

N. Y., New York City
DuPont Chemical Works, 120 Broadway
U. S. Industrial Alcohol Co., 27 William St.

Alcohol, Caprylic

Pa., Philadelphia
*Thomas, Arthur H. Co., W. Washington Sq.

Alcohol, Ethyl

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.

D. C., Washington
Corby Co., The

Ill., Pekin
American Distilling Co.

Ill., Peoria
Woolner Distilling Co.

Ind., Lawrenceburg
Walsh & Co., James

Ind., Terre Haute
Commercial Distilling Co., The

Alcohol, Ethyl—*cont.*

La., New Orleans
American Alcohol Co.
Louisiana Distilling Co.
Md., Baltimore
Canton Corn Products Co.
N. Y., New York City
*American Distributing Co., 750 Washington St.
Merck & Co., 45 Park Place
U. S. Industrial Alcohol Co.
N. Y., Waterloo
Industrial Distilling Co.
Ohio, Cincinnati
Clifton Springs Distilling Co.
Fleishmann Co., 419 Plum St.
Union Distilling Co., 3d and Race Sts.
Walsh & Co., James, Union Trust Bldg.
Ohio, Cleveland
Cleveland Cliffs Iron Co., 233 Bank St.
Harshaw, Fuller & Goodwin Co,. Electric Bldg.
Wis., Milwaukee
National Distilling Co., 79 Buffalo St.
Wash., Seattle
Rainier Products Co.

Alcohol, High Proof

Ohio, Cincinnati
Union Distilling Co., 3d and Race Sts.
Pa., Pittsburgh
Hamburger Distillery, Ltd., 706 Arrott Bldg.

Alcohol, Isoamyl

Mo., St. Louis
*Heil. Henry, Chemical Co., 210-214 S. 4th St.
N. Y., New York City
Du Pont Chemical Works, 120 Broadway
Merk & Co., 45 Park Place

Alcohol, Methyl

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Noble Electric Steel Co.
Fla., Jacksonville
Florida Wood Products Co.
Ga., Savannah
Chatham Mfg. Co.
Ill., Chicago
Central Commercial Co.
Md., Baltimore
*Walter Co., Edw. J., 803 American Bldg.
*Webb & Son, A. L., 115 E. Lombard St.
Mass., Boston
Bird & Co., J. A. & W.
Merrimac Chemical Co., 32 Broad St.
Mich., Boyne City
Boyne City Chemical Co.
Mich., Cadillac
Cadillac Chemical Co.
Cummer-Diggins Co.
Mich., Detroit
Berry Bros., (Ltd.), Leib and Weight St.
Charcoal Co. of America
Lake Superior Iron & Chemical Co., Union Trust Bldg.
Mich., Wells
Delta Chemical Co.
Mashek Chemical & Iron Co.
Mo., St. Louis
Sligo Furnace Co., 1302 N. 6th St.
N. Y., Brooklyn
*Miner-Edgar Co., 52 Warren St.
N. Y., Buffalo
Wood Products Co.
N. Y., Hancock
Kerry, T.
N. Y., Kingston
Nitrated Chemical Co.
N. Y., Mayburg
Tionesta Valley Chemical Co.
N. Y., New York City
*American Distributing Co., 750 Washington St.
Cooper & Co., Charles, 194 Worth St.
DuPont Chemical Works, 120 Broadway way
*Fuller & Co., Ralph L., 4 Rector St.
George Pine Turpentine Co. of New York
*Gray & Co., Wm. S., 76 William St.
*Magnus, Maybee & Reynard, 257 Pearl St.
Merck & Co., 45 Park Place
*Salomon & Bro., L. A., 216 Pearl St..
U. S. Industrial Alcohol Co., 27 William St.
Webb & Son, J. A., 52 Stone St.
N. Y., Niagara Falls
National Elctrolytic Co.
N. Y., Olean
Buckhannon Chemical Co.
Heinemann Chemical Co.
Keystone Wood Products Co.
Lackawanna Chemical Co.
N. Y., Waterloo
Industrial Distilling Co.
Ohio, Cleveland
Cleveland-Cliffs Iron Co., Rockefeller Bldg.
*Harshaw, Fuller & Goodwin Co. Electric Bldg.
Ore., Portland
Oregon Wood Distilling Co.
Pa., Bradford
Gaffney Wood Products Co.
Maryland Wood Products Co.
Cal., San Francisco
Nansen Chemical Co.
National Chemical Co.
Nusbaum Chemical Co
Pa., Mayburg
Tionesta Valley Chemical Co.

Alcohol, Phenyl Ethyl

N. Y., New York City
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Aldehyde (*see Acetaldehyde*)

Alizarine (*see also Colors and Dyestuffs*)

Mass., Boston
*Thayer & Co., E. M., 411 Atlantic Ave.
*United Indigo & Chemical Co., 176 Federal St.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
Cassella Color Co., 182 Front St.
*Century Colors Corp., 182 Front St.
Holliday & Sons, Read, Ltd., 160 Franklin St.
*Innis Speiden & Co., 46 Cliff St.
Kalle Color & Chemical Co., 530 Canal St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Co., 61 Broadway
Metz & Co., H. A., 122 Hudson St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Pa., Philadelphia
*Andreykovicz & Dunk, 58 N. Front St.
Vila Color Co., H. S., 243 S. 2d St.
R. I., Providence
Arnold, Hoffman & Co.

Alizarine Assistant

Mass., Atlantic
*Bosson & Lane
Mass., Boston
Avery Chemical Co., 88 Broad St.
*Leyland & Co., Thos., 60 India St.
*Shaw, John, & Co., 15 Elkins St.
United Indigo & Chemical Co., Ltd., 176 Federal St.
N. J., Harrison
National Red Oil & Soap Co.
N. J., Passaic
*Wolf, Jacques & Co.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Pa., Philadelphia
*Ferguson Bros., 109 Chestnut St.
R. I., Providence
Arnold, Hoffman & Co.

Alkali, Pure, 85%

Va., Saltville
Mathieson Alkali Works, Inc., The

Alkali, Tanners

Mich., Wyandotte
Ford Co., J. B.
Ill., Chicago
Abbott Laboratories, Ravenswood
N. J., Maywood
Shaefer Alkaloid Works
N. Y., New York City
McKesson & Robbins, Inc., 91 Fulton St.
New York Quinine & Chemical Works, Ltd., 114 William St.
N.Y., Norwich
Norwich Pharmacal Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Shoemaker & Co., Robt., 201 N. 4th St.

Alkalies (*see also Soda, Sodium Hydroxide, Potassum Hydroxide*)

England, Liverpool
United Alkali Co., Ltd.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
*Linder & Meyer, 89 State St.
Mich., Detroit
Michigan Alkali Co., 1622 Ford Bldg.
Mich., Midland
Dow Chemical Co.
Mich., Wyandotte
Michigan Alkali Co.
N. J., Jersey City
Seydel Mfg. Co., 86 Forrest St.
N. Y., Albany
Wander & Son Chemical Co., S., 135 Church St.
N. Y., New York City
Butterworth-Judson Corp., 61 Broadway
General Chemical Co., 25 Broad St.
Hooker Electrochemical Co.
National Aniline & Chemical Co., 244 Madison Ave.
Roessler & Hasslacher Chemical Co., 100 William St.
Warner Chemical Co., 52 Vanderbilt Ave.
N. Y., Niagara Falls
Niaraga Smelting Corp.
Castner Electrolytic Alkali Co.
N. Y., Syracuse
Solvay Process Co.
Ohio, Cincinnati
Globe Chemical Co., Murray Rd.
*Winkler & Bro., Isaac, 1st National Bank Bldg.
Pa., Bradford
American Acid & Alkali Co.

Alkalies—*cont.*

Pa., Philadelphia
Pennsylvania Salt Mfg. Co.
Pa., Pittsburgh
Columbia Chemical Co.
Diamond Alkali Co., 1st National Bank Bldg.
R. I., Providence
Arnold, Hoffman & Co.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Sq.
Va., Saltville
Mathieson Alkali Works
W. Va., Charleston
Rollin Chemical Co., Inc.

Alkaloids

England, London, E. C. 3
Berk & Co., Ltd., F. W., 1 Fenchurch Ave.

Alloys

Cal., Los Angeles
Pacific Platinum Works, 229 E. 9th St.
Cal., San Francisco
Noble Electric Steel Co., 995 Market St.
Colo., Denver
Denver Brass Works Co., 1225 12th St.
Conn., New Haven
United Smelting-Aluminum Co.
Ill., Chicago
Midland Metal Co., The S., Campbell and Ogden Aves.
Murphy Metals Co., 329 S. LaSalle St.
Ind., East Chicago
United States Reduction Co.
Mich., Detroit
Michigan Smelting & Refining Co., 1703 Jos Campau Ave.
Mo., St. Louis
More-Jones Brass & Metal Co.
N. J., Harrison
Driver-Harris Co.
N. J., Morristown
Electrical Alloy Co.
N. J., Jersey City
Williams & Son, E. A.
N. J., Newark
American Platinum Works, 2331 N. J. R. R. Ave.
Bender, Henry, 42 Walnut St.
Metal Products Co.
N. J., Riverside
Riverside Metal Co.
N. Y., Brooklyn
Standard Rolling Mills Co., Inc.
N. Y., Lockport
Electric Smelting & Aluminum Co.
N. Y., New York City
American Duraluminum Co., 11 Pine St.
American Metal Co., Ltd., 61 Broadway
*American Oil & Supply Co., 92 William St.
Boker & Co., Inc., H., Broadway and Duane Sts.
Columbia Smelting & Refining Works, 365 West St.
*Doggett, Inc., Stanley, Cliff and John Sts.
Duriron Castings Co., 90 West St.
Electro-Metallurgical Co., 42d St. Bldg.
Metal and Thermit Corporation, 120 Broadway
Hungerford Brass & Copper Co., U. T., 84 Lafayette Ave.
International Nickel Co., 43 Exchange Pl.
Iron & Steel Metal Alloy Co. of America, Liberty Tower Bldg.
Nassau Smelting & Refining Co., 607 W. 29th St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Tennant Sons & Co., C., 100 William St.
Union Smelting & Refining Co., 738 E. 14th St.
United States Alloys Corp., 30 E. 42d St.
N. Y., Syracuse
Empire Metal Co.
Ohio, Cleveland
National Smelting Works, 6800 Grant Ave.
Pa., Berwyn
American Bronze Co.
Pa., Connellsville
Riverside Metal Refining Co.
Pa., Philadelphia
Ajax Metal Co.
American Manganese Bronze Co.
Foote Mineral Co., Inc., 113 N. 19th St.
Janney, Steinmetz & Co., 1421 Chestnut St.
Lavino & Co., E. J., Bullitt Bldg.
Midvale Steel Co., Widener Bldg.
North American Smelting Co.
Phosphor Bronze Smelting Co., 2200 Washington Ave.
U. S. Smelting Works
Pa., Pittsburgh
Aluminum Co. of America, Oliver Bldg.
American Vanadium Co., 327 Frick Bldg.
Standard Alloy Co.
Standard Chemical Co.
Vanadium Alloy Steel Co.

Alloys—*cont.*
Pa., Primos
Primos Chemical Co.
Pa., Reading
American Boron Products Co.

Alloy, Calcium-Copper
N. Y., Niagara Falls
American Magnesium Corp.

Alloys, Dental
Del., Milford
Caulk Co., The L. D.

Alloys, Ferro
Cal., San Francisco
Beckman & Linden Engineering Corp., 415 Balboa Bldg.

Alloy, Heat Resisting
Ohio, Cleveland
Cleveland Brass Mfg. Co., 4606-4700 Hamilton Ave.

Alloys, Magnesium
N. Y., Niagara Falls
American Magnesium Corp.

Alloy, Pyrophoric
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Alloy, S. A. M.
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Aloin
Mich., Detroit
Parke, Davis & Co.
N. Y., New York City
*Lathrop, H. R., & Co., 194 Water St.
Sharpe & Dohme, 41 John St.
N. Y., Norwich
Norwich Pharmacal Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Alphanaphthylamin
N. Y., New York City
Barrett Co., 17 Battery Pl.
*Geisenheimer & Co., 134 Cedar St.
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Co., 61 Broadway
*Williamson & Co., 120 Broadway
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Alphanaphthylamine Hydrochloride
N. Y., New York City
*Geisenheimer & Co., Cedar 134 St.

Alum (*see Specific Headings*)

Alum, Ammonia
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
*Fuerst Bros. & Co., 2 Stone St.
Pa., Philadelphia
Harrisons Works, 35th and Grays Ferry Road
Pennsylvania Salt Mfg. Co., Widener Bldg.
Utah, Salt Lake City
American Smelting & Refining Co.

Alum, Ammonia, U.S.P. (Crystals)
England, Manchester
Spence & Sons, Ltd., Peter
Pa., Philadelphia
Harrisón Works, 35th and Grays Ferry Rd.

Alum, Chromium
Mass., Boston
Avery Chemical Co., 88 Broad St.
Merrimac Chemical Co., 32 Broad St.
Mo., St. Louis
Commercial Acid Co., 1916 Boatman's Bank Bldg.
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
*Bischoff & Co., C. 451 Washington St.
*Campbell, C. W., 95 Cliff St.
*Fuller & Co., Ralph, 4 Rector St.
General Chemical Co., 25 Broad St.
*Katzenbach & Bullock Co., Inc., William and John Sts.
*Klipstein & Co., A., 644 Greenwich St.
*Madero Bros., 115 Broadway
Marden, Orth & Hastings Co., Inc., 61 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
*Tennant Sons & Co., C., 100 William St.
N. Y., Niaraga Falls
National Electrolytic Co.
Pa., Philadephia
Pennsylvania Salt Mfg. Co., 1000 Widener Bldg.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
Industrial Chemical Co.

Alum (Filter)
N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
Ohio, Cleveland
Grasselli Chemical Co.

Alum (Filter)—*cont.*
Ohio, Sandusky
Jarecki Chemical Co.
Pa., Philadelpha
Harrison Works, 35th and Grays Ferry Road.
Pennsylvania Salt Mfg. Co., Widener Bldg.

Alum (Papermakers)
Ohio, Sandusky
Jarecki Chemical Co.

Alum, Pearl
N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road

Alum (Pickle)
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road

Alum (Porous)
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road

Alum, Potash, U.S.P., (Crystal)
Cal., Berkeley
Pacific Guano and Fertilizer Co.
England, Manchester
Spence & Sons, Ltd., Peter
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros. & Co., 2 Stone St.
General Chemical Co., 25 Broad St.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Alum (Sizing)
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road

Alumina *(see Aluminium Oxide)*

Aluminium Acetate
England, Manchester
Robinson & Co., H. F., Newton Heath
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Aluminium Acetate Solution
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Aluminium Bronze
Ohio, Marietta
Northwestern Chemical Co., The

Aluminium Carbide
N. Y., New York City
General Chemical Co., 25 Broad St.
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
Squibb, E. R. & Sons, 84 Beekman St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
*Thomas, Arthur H., Co., W. Washington Square
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.

Aluminium Carbonate
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.

Aluminium Chloride
Mass., Boston
Avery Chemical Co., 88 Broad St.
Cochrane Chemical Co., 40 Central St.
Merrimac Chemical Co., 32 Broad St.
Mass., Worcester
Marble & Co., J. Russell
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
General Chemical Co., 25 Broadway
Kalbfleisch Corp., Broadway and 16th St.
Katzenbach & Bullock Co., 100 William St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Waldo, E. M. & F., 11 Broadway
Warner Chemical Co., 52 Vanderbilt Ave.
N. Y., Niagara Falls
Niagara Alkali Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.

Aluminium Chloride, Anhydrous
Mich., Midland
Dow Chemical Co.

Aluminium Chloride, Pure Cryst.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Aluminium Chloride Solution, 30°
. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Aluminium Dust
Cal., Oakland
Butters, Charles

Aluminium Formate
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Aluminium Hydrate (*see Aluminium Hydroxide*)

Aluminium Hydroxide
Ill., Chicago
*Stresen-Reuter & Hancock, Inc., 1501 S. Peoria St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Harrison Works, 80 Maiden Lane
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., Inc., 61 Broadway
Warner Chemical Co., 52 Vanderbilt Ave.
Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Aluminium, Metal
Conn., New Haven
United Smelting & Aluminum Co.
Ill., Chicago
Great Western Smelting & Refining Co.
Illinois Smelting & Refining Co.
Ind., East Chicago
U. S. Reduction Co.
Mich., Detroit
Michigan Smelting & Refining Works
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
*Beer, Sondheimer & Co., 61 Broadway
Pa., Philadelphia
Janney, Steinmetz & Co., 1421 Chestnut St.
Pa., Pittsburgh
Aluminum Co. of America, Oliver Bldg.
Northern Aluminum Co., Ltd., 2344 Oliver Bldg.

Aluminium Muriate (*see Aluminium Chloride*)

Aluminium Oleate
N. J., Harrison
National Oil Products Co., Essex and First Sts.
N. Y., New York City
*Sloan & Russell, Inc., 132 Nassau St.

Aluminium Oxide
N. J., Trenton
Utah Potash Co.
Pa., Philadelphia
General Chemical Co., Lafayette Bldg.
Harrison Works, 35th and Grays Ferry Road
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
Va., Petersburg
Southern Chemical Co.

Aluminium Palmitate
N. J., Harrison
National Oil Products Co., Essex and First Sts.

Aluminium Phosphate
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Aluminium Resinate
N. J., Harrison
National Oil Products Co., Essex and First Sts.

Aluminium Stearate
N. J., Harrison
National Oil Products Co., Essex and First Sts.
N. Y., New York City
*Klipstein & Co. A,., 644 Greenwich St.
*Sloan & Russell, Inc., 132 Nassau St.
Pa., Philadelphia
*Meyer & Sons, J., 480 Bourse Bldg.

Aluminium Sulphate
England, Manchester
Spence & Sons, Ltd., Peter
England, Widnes
Alumina Co., Ltd.
Mass., Boston
Cochrane Chemical Co.
Merrimac Chemical Co.
New England Gas & Coke Co.
Mich., Detroit
Detroit Chemical Works, 238 Junction Ave.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
American Agricultural Chemical Co., 2 Rector St.
American Coal Products Co., 17 Battery Place
Butterworth-Judson Corp., 61 Broadway
Chemical Co. of America, Inc.
Corper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
Grasselli Chemical Co., 80 Maiden Lane
*Harshaw, Fuller & Goodwin Co., 100 William St.

Aluminum Sulphate—*cont.*
N. Y., New York City—cont.
Kalbfleisch Corp., 31 Union Square
Katzenbach & Bullock Co., 100 William St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
Squibb & Son, E. R., 82 Beekman St.
*Tennant Sons Co., C., 100 William St.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cincinnati
Jarecki Chemical Co.
*Winkler & Bro. Co., Isaac, 804 First National Bank Bldg.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road
Pennsylvania Salt Mfg. Co., Widener Bldg.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Square

Aluminium Sulphate, Commercial Tech.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Aluminium Sulphate, Pure Cryst, Tech.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Aluminium Sulphocyanide
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Alumino-vanadium
Pa., Pittsburgh
American Vanadium Co., Vanadium Bldg.
Standard Chemical Co.
Pa., Primos
Primos Chemical Co.

Aluminum (*see Aluminium Metal*)

Amber, Synthetic
Ill., Chicago
Redmanol Chemical Products Co., 626 W. 22d St.

Amidol (*see Diamidiphenol*)

Amidopyrine
N. Y., New York City
*Fougera, E. & Co., 90 Beekman St.

Amidophenol Para
N. J., Elizabeth
Bayway Chemical Co.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.
N. Y., Hastings-on-Hudson
*Zinsser & Co.
N. Y., New York City
*Barrett Co., 17 Battery Place
*Berlin Aniline Works, 213 Water St.
*Chemical Co. of America, 28 Platt St.
*Drug & Dyestuff Corp., 120 Broadway
Empire Chemical Co., 149 Broadway
*National Aniline & Chemical Co., Inc., 244 Madison Ave.
*New Jersey Products, Inc., 165 Broadway
N. Y., North Tonawanda
*Synthetic Products Co., Inc.
Pa., Lock Haven
*Stanley Aniline Chemical Works, Inc.

Amidophenol Diacetyl, Para
N. Y., New York City
Chemical Co. of Amerca, 28 Platt St.

Amidophenol Hydrochloride, Para
N. Y., New York City
New Jersey Products, Inc., 165 Broadway

Ammonia
Ala., Birmingham
Gulf States Steel Co., Brown-Marx Bldg.
Tennessee Coal, Iron & R. R. Co.
Ala., Woodward
Woodward Iron Co.
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Colorade Fuel & Iron Co., Boston Bldg.
Western Chemical Mfg. Co.
Ill. Aurora
Coal Products Mfg. Co.
Ill., Chicago
By-Products Coke Corp.
Illinois Steel Co., 208 S. LaSalle St.
Inland Steel Co.
Ill., Waukegan
North Shore Gas Co.
Ind., Indianapolis
Citizens Gas Co.
Ind., Linton
Linton Gas Co.
Ind., Muncie
Central Indiana Gas Co.
Ind., Terre Haute
Indiana Coke & Gas Co.
Mass., Boston
Merrimac Chemical Co., 33 Broad St.
New England Fuel & Trans. Co., 111 Devonshire St.
Mich., Wyandotte
Michigan Alkali Co.

Ammonia—*cont.*

Minn., Duluth
Minnesota Steel Co., Morgan Park Sta.
Minn., St. Paul
Minnesota By-Product Coke Co.
Minn., West Duluth
Zenith Furnace Co.
Mo., St. Louis
Laclede Gas Light Co., 1017 Olive St.
N. J., Jersey City
Seaboard By-Product Coke Co.
N. J., Newark
Camden Coke Co., Broad and Bank Sts.
N. Y., Buffalo
Buffalo Union Furnace Co.
Contact Process Co.
N. Y., Lackawanna
Lackawanna Steel Co.
N. Y., New York City
American Cyanamid Co.
Barrett Co., 17 Battery Place
Cooper Co., Charles, 194 Worth St.
*Harshaw, Fuller & Goodwin Co., 100 William St.
*Hirsh & Son, L., 368 Greenwich St.
Niagara Coke Corp., 6 Church St.
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cleveland
American Steel & Wire Co., Western Reserve Bldg.
Dover By-Product Coke Co., Leader-News Bldg.
Grasselli Chemical Co.
River Furnace Co.
Toledo Furnace Co., Western Reserve Bldg.
United Furnace Co., Western Reserve Bldg.
Ohio, Hamilton
Hamilton-Otto Coke Co.
Ohio, Youngstown
Brier Hill Steel Co.
Republic Iron & Steel Co., Republic Bldg.
Youngstown Sheet & Tube Co.
Ohio, Steubenville
La Belle Iron Works
Pa., Chester
Philadelphia Suburban Gas & Electric Co.
Pa., McKeesport
Alleghany By-Product Coke Co.
Pa., Philadelphia
Bower Chemical Mfg. Co., Henry, Grays Ferry Rd. and 29th St.
Cambria Steel Co., Widener Bldg.
Clawson Co., 240 Chestnut St.
Pa., Pittsburgh
Carnegie Steel Co.
National Tube Co., Frick Bldg.
Pa., South Bethlehem
Bethlehem Steel Co.
Wash., Seattle
Seattle Lighting Co., 360 Stuart Bldg.
Wis., Milwaukee
Milwaukee Coke & Gas Co.
Northwestern Iron Co., First National Bank Bldg.
England, Smithy Bridge, near Rochdale
Dearhead Chemical Co.

Ammonia, Anhydrous

Canada, Toronto, Ontario
Canadian Ammonia Co., Ltd., Heward Ave.
Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
Ill., Chicago
Armour Glue Works, 137 LaSalle Ave.
Morris & Co., Union Stock Yards
Md., Baltimore
*McCormick & Co., 722 E. Pratt St.
Mass., Boston
Cochrane Chemical Co., 40 Central St.
Merrimac Chemical Co., 32 Broad St.
New England Gas & Coke Co.
Mo., St. Louis
National Ammonia Co., The, 3600 N. Broadway
N. Y., New York City
General Chemical Co., 25 Broad St.
Cooper & Co., Chas., 194 Worth St.
*Katzenbach & Bullock Co., 100 William St.
National Ammonia Co., 30 Platt St.
Roessler & Hasslacher Chemical Co., 100 William St.
Schwenker, Inc., W. M., 340–344 E. 92d St.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Carbondale
Carbondale Calcium Co.
Pa., Philadelphia
Bower, Henry, Chemical Mfg. Co., 29th and Grays Ferry Road
National Ammonia Co., Van Kirk and Delaware River

Ammonia, Aqua (*see Ammonium Hydrate*)

Ammonia, C.P.

Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.

Ammonia (Concentrated)

Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.

Ammonia Concentrated—*cont.*
N. Y., New York City
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Ohio, Columbus
*Laboratory Supply Co., 236 N. 3rd St.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Ammonia Liquor (Gas Companies are producers)

Ammonia Salts (*see Specific Headings under Ammonium Salts*)

Ammoniates, Fertilizer
Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
Wilson & Co., 41st and Ashland Ave.
Va., Richmond
Virginia-Carolina Chemical Co.

Ammonium Acetate
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Ammonium Bicarbonate
N. Y., New York City
American Coal Product Co., 17 Battery Place

Ammonium Borate
N. Y., New York City
Pacific Coast Borax Co., 100 William St.

Ammonium Bromide
Mich., Midland
Dow Chemical Co.
N. Y., New York City
Baker, H. J. & Bro., 81 Fulton St.
Heyden Chemical Works, 135 William St.
*Wood, Inc., J. Early, 21 Platt St.
Pa., Easton
Baker & Adamson Chemical Co.
W. Va., Malden
Dickinson Co., J. Q.

Ammonium Bromide, Pure, Tech.
N. Y., New York City
Cooper & Co., Chas., 194 Worth St.

Ammonium Carbonate
Canada, Toronto, Ontario
Canadian Ammonia Co., Ltd., Heward Ave.
Md., Baltimore
*Walter Co., Edward J., 803 American Bldg.
Mich., Detroit
Michigan Ammonia Works, Meldrum St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Katzenbach & Bullock Co., 100 William St.
Mallinckrodt Chemical Works
McKesson & Robbins, Inc., 91 Fulton St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Powers-Weightman-Rosengarten Co.
Roessler & Hasslacher Chemical Co., 100 William St.
Squibb & Sons, E. R., 82 Beekman St.
*Van Brunt & Co., Inc., J. A., 114 John St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Philadelphia
Harrisons, Inc., 35th and Grays Ferry Road
Jordan, Jr., W. H. & F., 128 N. Water St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Pa., Pittsburgh
*Scientific Materials Co.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Sq.

Ammonium Carbonate, Pure Tech. Lump
N. Y., New York City
Cooper & Co., Chas., 194 Worth St.

Ammonium Chloride
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
England, Liverpool
Haddock Parker & Co., 14 Chapel St.
England, Smithy Bridge near Rochdale
Dearhead Chemical Co.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
Avery Chemical Co., 88 Broad St.
*Linder & Meyer, 89 State St.
Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., Brooklyn
Wiarda & Co., John C., 259 Green St.

Ammonium Chloride—*cont.*

N. Y., New York City
Barrett Company, Battery Place
Bauer Co., Philip, 68 Broad St.
Cooper & Co., Charles, 194 Worth St.
European Color & Chemical Co., 154 Nassau St.
*Fuerst Bros. & Co., 2 Stone St.
*General Chemical Co., 25 Broad St.
Harshaw, Fuller & Goodwin Co., 100 William St.
Holliday, Read & Sons, Ltd., 160 Franklin St.
*Klipstein & Co., A., 644 Greenwich St.
*Lamson & Bro., John L., 80 Maiden Lane
Marden, Orth & Hastings Co., 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
Riker, J. L. & D. S., Inc., 19 Cedar St.
*Roessler & Hasslacher Chemical Co. 100 William St.
Squibb & Co., E. R., 82 Beekman St.
White Tar Co., 2 Cliff St.
*Wing & Evans, 22 William St.
*Wood, Inc., J. Early, 21 Platt St.

N. Y., Syracuse
Semet-Solvay Co.

Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.

Pa., Philadelphia
Jordan, Jr., W. H. & F., 128 N. Front St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Sq.

Ammonium Chloride (sal) gran'l, tech.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Ammonium Chrome Alum

N. Y., New York City
*Campbell, C. W., 11 Cliff St.

Ammonium Citrate

N. Y., New York City
*Pfizer & Co., Chas., 81 Maiden Lane

Ammonium Fluoride

N. Y., Brooklyn
Wiarda, John C., & Co., 273 Greene St.

N. Y., New York City
Raritan Chemical Co.

Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., Electric Bldg.

Ammonium Fluoride, Dry, Technical

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Ammonium Hydrate

Canada, Toronto, Ontario
Canadian Ammonia Co., Ltd., Heward Ave.

Colo., Denver
Western Chemical Mfg. Co.

England, London
Berk & Co., Ltd., F. W., Fenchurch St.

Mass., Boston
Cochrane Chemical Co., 40 Central St.
Merrimac Chemical Co., 32 Broad St.
United Indigo & Chemical Co., 176 Federal St.

Mich., Detroit
Michigan Ammonia Works, Meldrum St.

Mo., St. Louis
National Ammonia Co., 3600 N. Broadway

N. Y., Brooklyn
Seldner & Enequist

N. Y., New York City
American Coal Products Co., 17 Battery Place
American Cyanamic Co., 511 Fifth Ave.
Columbia Chemical Works, 11 Broadway
Eimer & Amend, 205–211 Third Ave.
General Chemical Co., 25 Broad St.
*Heymann, W. H., 438 E. 59th St.
Kalbfleisch Corp., 31 Union Square, W.
*Klipstein & Co., A., 644 Greenwich St.
National Ammonia Co., 30 Platt St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Schwenker, Inc., W. M., 340–344 E. 92d St.
United Aniline & Chemical Works, Inc., 377 Broadway
*Wood, Inc., J. Early, 21 Platt St.

Ohio, Cleveland
Grasselli Chemical Co.

Pa., Carbondale
Carbondale Calcium Co.

Pa., Philadelphia
Bower Chemical Mfg. Co., Henry, 29th & Grays Ferry Road.
Harrison Works, 35th and Grays Ferry Road
National Ammonia Co., Van Kirk and Delaware River

Ammonium Hydrate—*cont.*
Pa., Philadelphia—cont.
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Ammonium Hydroxide (*see Ammonium Hydrate*)

Ammonium Hydrosulphuret
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Ammonium Iodide, U.S.P.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Ammonium, Molybdate
Colo., Denver
Chemical Products Co., 612 Majestic Bldg.
Del., Wilmington
Mineral Products Mfg. Co., Inc.
N. Y., New York City
Squibb & Sons, E. R., 82 Beekman St.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Pa., Primos
Primos Chemical Co.

Ammonium Muriate (*see Ammonium Chloride*)

Ammonium Nitrate
Ala., Muscle Shoals
U. S. Government Plant
Mass., Boston
Merrimac Chemical Co., 32 Broad St.
N. Y., New York City
*Aetna Chemical Co., Inc.
*Alexander & Co., Inc., C. S., 61 Broadway
American Cyanamid Co., 511 Fifth Ave.
*Katzenbach & Bullock Co., 100 William St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Roessler & Hasslacher Chemical Co., 100 William St.
Squibb & Sons, E. R., 80 Beekman St.
*Tennant Sons & Co., C., 100 William St.
*Peters, White & Co., 55 John St.
*Williamson & Co., 120 Broadway
Ohio, Cleveland
Lennox Chemical Co., 1201 E. 55th St.
Ohio Chemical & Mfg., 1177 Marquette Road.
Pa., Emporium
Cameron Powder Mfg. Co.
Wash., Seattle
American Nitrogen Products Co.

Ammonium Nitrate, Granular, Tech.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Ammonium Oxalate
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Squibb & Sons, E. R., 82 Beekman St.
Pa., Bradford
American Alkali & Acid Co.

Ammonium Persulphate
N. Y., New York City
Holz, Herman A., 50 Church St.

Ammonium Picrate
N. Y., Syracuse
Semet-Solvay Co.

Ammonium Phosphate
Ill., Chicago
Victor Chemical Co., 1810 Fisher Bldg.
N. Y., Brooklyn
Wiarda & Co., John C.
N. Y., New York City
American Cyanamid Co., 511 Fifth Ave.
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
*Katzenbach & Bullock Co., 100 William St.
*Klipstein & Co., A., 644 Greenwich St.
Roessler & Hasslacher Chemical Co., 100 William St.
Squibb & Sons, E. R., 82 Beekman St.
England, Manchester
Victors, Ltd., Victoria Bldg.

Ammonium Salicylate
N. Y., New York City
Heyden Chemical Works, 135 William St.

Ammonium Stearate
N. Y., Long Island City
Horn Co., A. C., Horn Bldg.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Ammonium Sulphate
Ala., Birmingham
Gulf States Steel Co., Brown-Marx Bldg.
Tennessee Coal, Iron & R. R. Co.
Ala., Woodward
Woodward Iron Co.
Colo., Denver
Colorado Fuel & Iron Co., Boston Bldg.
England, Manchester
Spence & Sons, Ltd., Peter

Ammonium Sulphate—*cont.*

Ill., Aurora
Coal Products Mfg. Co.
Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
Armour Glue Works, 137 LaSalle Ave.
By-Products Coke Corp.
Illinois Steel Co., 208 S. LaSalle St.
Ill., Waukegan
Inland Steel Co.
North Shore Gas Co.
Ind., Indianapolis
Citizens Gas Co.
Ind., Linton
Linton Gas Co.
Ind., Muncie
Central Indiana Gas Co.
Ind., Terre Haute
Indiana Coke & Gas Co.
Md., Baltimore
*Walter Co., Edw. J., 803 American Bldg.
Mass., Boston
Merrimac Chemical Co., 40 Central St.
New England Fuel & Trans. Co., 111 Devonshire St.
New England Gas & Coke Co., 24 West St.
Mich., Wyandotte
Michigan Alkali Co.
Minn., Duluth
Minnesota Steel Co., Morgan Park Sta.
Minn., St. Paul
Minnesota By-Product Coke Co.
Minn., West Duluth
Zenith Furnace Co.
Mo., St. Louis
Laclede Gas Light Co., 1017 Olive St.
N. J., Jersey City
Seaboard By-Product Coke Co.
N. J., Newark
Camden Coke Co., Broad and Bank Sts.
Lister Agricultural Chemical Works
N. Y., Buffalo
Buffalo Fertilizer Co., 62 Pearl St.
Buffalo Union Furnace Co.
Lackawanna Steel Co.
N. Y., Lackawanna
Lackawanna Steel Co.
N. Y., New York City
Alexander & Co., Inc., C. S., 61 Broadway
American Coal Products Co., 17 Battery Place
American Cyanamide Co., 511 Fifth Ave.
*Baker & Bro., H. J., 81 Fulton St.
Barrett Co., 17 Battery Place
*Freeman & Co., R. B., 96 Wall St.
General Chemical Co., 25 Broad
Katzenbach & Bullock Co., 100 William St.
Lister Agricultural Chemical Works, 2 Rector St.
Marden, Orth & Hastings Co., 61 Broadway
Niagara Coke Corp., 6 Church St.
*Peters, White & Co., 92 William St.
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cleveland
American Steel & Wire Co., Western Reserve Bldg.
Dover By-Product Coke Co., Leader-News Bldg.
River Furnace Co.
Toledo Furnace Co., Western Reserve Bldg.
United Furnace Co., Western Reserve Bldg.
Ohio, Hamilton
Hamilton-Otto Coke Co.
Ohio, Youngstown
Brier Hill Steel Co.
Republic Iron & Steel Co., Republic Bldg.
Youngstown Sheet & Tube Co.
Ohio, Steubenville
LaBelle Iron Works
Pa., Chester
Philadelphia Suburban Gas & Electric Co.
Pa., McKeesport
Allegheny By-Products Coke Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
Pa., Pittsburgh
Carnegie Steel Co.
National Tube Co., Frick Bldg.
Pa., South Bethlehem
Bethlehem Steel Co.
Tenn., Chattanooga
Chattanooga Gas & Coal Products Co., James Bldg.
Wash., Seattle
Seattle Lighting Co., 360 Stuart Bldg.
Wis., Milwaukee
Milwaukee Coke & Gas Co.
Northwestern Iron Co., First National Bank Bldg.
Scotland, Glasgow
Pumpherston Oil Co., Ltd., 135 Buchanan St.

Ammonium Sulphate, Tech.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Ammonium Sulphocyanide

(*see Ammonium Sulphocyanate*)

Ammonium Sulphocyanate
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Ammonium Sulphocyanate, Purif. Tech.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Ammonium Tartrate, Tech.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Ammonium Vanadate
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Pa., Primos
Primos Chemical Co.

Amyl Acetate
Conn., Stamford
Celluloid Zapon Co.
Del., Wilmington
International Smokeless Powder & Chemical Co.
Ill., Chicago
Daigger & Co., A., 52–56 W. Kinzie St.
Van Schaack Bros. Chemical Works
N. J., Carlstadt
Franco-American Chemical Works
N. J., Wallington
Anderson Chemical Co.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
DuPont Chemical Works, 120 Broadway
Eimer & Amend, 205–211 Third Ave.
*Fritzsche Bros., 82 Beekman St.
International Smokeless Powder & Chemical Co., 140 Cedar St.
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
*Lathrop & Co., H. R., 194 Water St.
*Maas & Waldstein Co., 100 William St.
*Magnus, Mabee & Reynard, 257 Pearl St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co. Inc., 244 Madison Ave.
*Pfatz & Bauer, Inc., 300 Pearl St.
Powers-Weightman-Rosengarten Co.
*Sloan & Russell, Inc., 132 Nassau St.
U. S. Industrual Alcohol Co., 27 William St.
*Van Brunt & Co., J. A., 114 John St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Pa., Warren
Warren Chemical Products Co.

Amyl Butyrate
Ill., Chicago
Van Shaack Bros., Chemical Works

Amyl Alcohol
(*see Alcohol Amyl*)

Amyls
N. Y., New York City
Bush & Co., W. J., 100 William St.

Andalucia
N. Y., New York City
*Farrell, William J., 115 Maiden Lane

Anhydrate Acetic
(*see Acetic Anhydride*)

Anhydride, Phthalic
(*see Phthalic Anhydride*)

Aniline Dyes
(*see Colors and Dyestuffs*)

Aniline
Conn., Naugatuck
Naugatuck Chemical Co.
England, Manchester
Robinson & Co., H. F., Newton Heath
*Willcocks & Co., Ltd., H. S., 5, Beaver St.
Ill., Chicago
*Heller & Co., B., 3925 Calumet Ave.
Street & Co., R. R., 541 W. Washington St.
*Sethness Co.
Western Aniline Products Co.
Mass., Boston
Atteaux & Co., F. E., 176 Purchase St.
Bird & Co., J. A. & W., 88 Pearl St.
United Indigo & Chemical Co., 176 Federal St.
Mich., Detroit
Eaton & Son, Theo. H., 26 Woodward Ave.
Mich., Midland
Dow Chemical Co.
N. J., Bound Brook
Calco Chemical Co.
N. J., Elizabeth
Midvale Chemical Works
N. J., Newark
American Ultramarine & Globe Aniline Works, Hamburg Place
Central Dyestuff & Chemical Co., Plum Pt. Lane

Aniline—*cont.*

N. Y., New York City
Bayer Co., The, 117 Hudson St.
Berlin Aniline Works, 213 Water St.
*Bischoff & Co., Inc., C., 451 Washington St.
*Bredt & Co., F., 240 Water St.
*Campbell & Co., John, 75 Hudson St.
*Century Colors Corp., 182 Front St.
Chemical Co. of America, 28 Platt St.
*Chemical Importing & Mfg. Co., 90 West St.
*Doherr, Grimm & Co., 87 Gold St.
DuPont Chemical Works, 120 Broadway
*Dye Products & Chemical Co., 200 Fifth Ave.
Eimer & Amend, 205–211 Third Ave.
Farbwerke-Hoechst Co., 122 Hudson St.
*Fuerst Bros. & Co., 2 Stone St.
*Geisenheimer & Co., 134 Cedar St.
Heller & Merz, 505 Hudson St.
*Herman & Herman, Inc., 6 Church St.
*Innis, Speiden & Co., 46 Cliff St.
Jamaica Dyewood & Chemical Co., 50 Church St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
*Lieber & Co., Inc., H., 14 Platt St.
*Magnus, Mabee & Reynard, Inc., 257 Pearl St.
Marden, Orth & Hastings Co., 61 Broadway
Merck & Co., 45 Park Place
Middlesex Aniline Co., Inc., 149 Broadway
National Aniline & Chemical Co., Inc., 244 Madison Ave.
New Jersey Products, Inc., 165 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
*Wood, Inc., J. Early, 21 Platt St.

Ohio, Cleveland
Sherwin-Williams Co.

Pa., Lock Haven
Stanley Aniline Chemical Works, Inc.

Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
*Fortner Co., L. B., 36–38 Strawberry St.

R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.
Industrial Chemical Co., Inc., P. O. Box 1288
*Lewis, John D., 63 Charles St.

Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood, Sq.

Switzerland, Basle
Sandoz Chemical Works

Aniline Oil for Red (*see Toluidine, mixed p and o*)

Aniline Hydrochloride

N. J., Bound Brook
Calco Chemical Co.

N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.

N. Y., New York City
Berlin Aniline Works, 213 Water St.
Butterworth-Judson Corp., 61 Broadway
DuPont Chemical Works, Equitable Bldg.
*Geisenheimer & Co., 134 Cedar St.
Independent Chemical Co., 72 Front St.
Jamaica Dyewood & Chemical Co., 50 Church St.
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
Metz & Co., H. A., 122 Hudson St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
New Jersey Products, Inc., 165 Broadway
Read & Holliday Sons, 160 Franklin St.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.

Pa., Philadelphia
Ferguson Bros., 109 Chestnut St.
Smith, Kline & French Co.

England, Manchester
*Willcocks & Co., Ltd., H. S., 5, Beaver St.

Aniline Oil (*see Aniline*)

Aniline Sulphate

Conn., Naugatuck
Naugatuck Chemical Co.

Animal Derivatives

Mich., Detroit
Digestive Ferments Co.

Anthracene

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.

Anthracene—*cont.*
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Merck & Co., 45 Park Place
Pa., Philadelphia
*Thomas, Arthur H., C., W. Washington Square

Anthracin
N. Y., New York City
Barrett Co., 17 Battery Place

Anthraquinone
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.

Anti-Chlorine
Mass., Atlantic
*Bosson & Lane
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Anti-Chlorine, for Paper Manufacturers
N. Y., New York City
Roessler & Hasslacher Chemical Co., 100 William St.
R. I., Providence
Arnold, Hoffman & Co.
Rumford Chemical Works

Antidolorin
N. J., Carlstadt
Franco-American Chemical Works, 8 Gold St.

Antimony, Black
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Antimony, Crimson and Golden
Conn., Naugatuck
Naugatuck Chemical Co.

Antimony, Crude
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Antimony (Metal)
Cal., San Francisco
Selby Smelting & Lead Co., Merchants' Exchange Bldg.
Ill., Chicago
Great Western Smelting & Refining Co., 41st and Wallace Sts.
Illinois Smelting & Refining Co.
Raymond Lead Co., 940 W. Huron St.
Mass., Boston
Cochrane Chemical Co., 40 Central St.
Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway
N. J., Jersey City
Williams & Sons, E. A.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., Buffalo
*Hayman & Co., M., E. Ferry and N. Y. C. R. R.
N. Y., New York City
American Metal Co., 61 Broadway
*Arnhold, Karberg & Co., of China, 21 State St.
*Beer, Sondheimer & Co., 61 Broadway
*Chrystal, Charles B., 11 Cliff St.
Cooper & Co., Charles, 194 Worth St.
Dickerson, Van Dusen & Co., 32 Cliff St.
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros. & Co., 2 Stone St.
*Hardy, Charles, 50 Church St.
*Hendricks Bros., 49 Cliff St.
*Hill & Sons, Edw., 64 Wall St.
Hungerford Brass & Copper Co., U. T., 84 Lafayette Ave.
*Import Chemical Co., 276 Water St.
*Jardine, Matheson & Co., Ltd., 63 Wall St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
Magnolia Metal Co., 113 Bank St.
McKesson & Robbins, Inc., 91 Fulton St.
Nassau Smelting & Refining Works, 607 W. 29th St.
*Rockhill & Vietor, 22 Cliff St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Schieffelin & Co., 170 William St.
*Seligmann, Arthur, 165 Broadway
Wah Chang Mining & Smelting Co.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., Electric Bldg.
Pa., Philadelphia
Ajax Metal Co.
Foote Mineral Co., Inc.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
Hussey & Co., C. G., 2850 Second Ave.

Antimony (Metal) Lump
Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., New York City
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
*Rockhill & Vietor, 22 Cliff St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Antimony (Metal) Powdered
N. Y., New York City
Cooper & Co., Chas., 194 Worth St.

Antimony, Needle
N. Y., New York City
*Harshaw, Fuller & Goodwin Co., 100 William St.
*Import Chemical Co., 276 Water St.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Antimony, Needle, Powdered, Tech.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Antimony Chloride
Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., New York City
Cooper & Co., Chas., 194 Worth St.
Merck & Co., 45 Park Place
Pa,, Philadelphia
Powers Weightman-Rosengarten Co.

Antimony Oxalate
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Antimony Oxide
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
*Harshaw, Fuller & Goodwin Co., 100 William St.
*Import Chemcal Co., 276 Water St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
Magnolia Metal Co., 113 Bank St.
*Pfaltz & Bauer, Inc., 300 Pearl St.
Roessler & Hasslacher Chemical Co., 100 William St.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Antimony Oxide, White
N. J., New Brunswick
Antimony & Compounds Co. of America, P. O. Box 293

Antimony Regulus
N. J., New Brunswick
Antimony Compound Co. of America, P. O. Box 293
N. Y., New York City
Magnolia Metal Co., 113 Bank St.

Antimony Salts (*see Specific Headings*)

Antimony Sulphide
N. Y., New York City
*Doherr, Grimm & Co., 87 Gold St.
*Import Chemical Co., 276 Water St.
Magnolia Metal Co., 113 Bank St.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Antimony Sulphuret (*see Antimony Sulphide*)

Antimony Tartrate
England, Manchester
*Willcocks & Co., Ltd., H. S., 5, Beaver St.
N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St
*Van Brunt & Co., Inc., J. A., 114 John St.

Antimony Tribromide
Mich., Midland
Dow Chemical Co.

Antipyrene
Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Fries & Bro., 92 Reade St.
Farbwerke-Hoechst Co., 111 Hudson St.
Hoffman-La Roche Chemical Works, 440 Washington St.
Lehn & Fink, Inc., 120 William St
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
Pa., Fort Washington
Columbia Chemical Constructive Co.

Antisepticum
N. Y., Kingston
Nitrated Chemicals Co.
Ohio, Fostoria
Sterizol Co., The, 110-112 E. South St.

Antitoxins
D. C., Washington
National Vaccine & Anti-Toxin Institute, 1513 W St., N. W.
Ill., Chicago
Cutter Laboratory of Ill., The, 170 N. Dearborn Ave.
Ind., Indianapolis
Lilly, Eli & Co., 224 E. McCarthy St.
Mich., Detroit
Parke, Davis & Co.
Stearns & Co., Fredericks

Antitoxins—*cont.*
N. Y., New York City
Farbwerke-Hoechst Co., 111 Hudson St.
Lederle Anti-Toxin Laboratories, 170 William St.
Pasteur Laboratories of America, 366 W. 11th St.
*Schieffelin & Co., 170 William St.
Pa., Philadelphia
Mulford, H. K., Co., 412 S. 13th St.

Aqua Fortis (*see Acid, Nitric*)

Arbutin
Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Archil (*see also Dyestuffs*)
Mass., Boston
*United Indigo & Chemical Co., 176 Federal St.
N. Y., Long Island City
*Oakes Mfg. Co.
N. Y., New York City
*American Dyewood Co., 80 Maiden Lane
*Berlin Aniline Works, 213 Water St.
*Bredt & Co., F., 240 Water St.
*Holliday, Read & Sons (Ltd.), 160 Franklin St.
*Innis, Speiden & Co., 46 Cliff St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
*Lengfelt, F. H., & Co., 100 Maiden Lane
*Stamford Mfg. Co., 88 Wall St.
*White Tar Co., 6 Cliff St.
R. I., Providence
*Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.

Argentum Nucleinicum
N. Y., New York City
Heyden Chemical Works, 135 William St.

Argentum Proteinicum
N. Y., New York City
Heyden Chemical Works, 135 William St.

Argillite (*see also Clays*)
N. J., Bound Brook
Atlas Mineral Products Machine Co.
N. Y., Gouverneur
Ontario Talc Co.
N. Y., New York City
International Pulp Co., 41 Park Row
Union Talc Co., 132 Nassau St.
Pa., Easton
Williams & Co., C. K.

Argol
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
N. Y., New York City
Holliday, Read & Sons, Ltd., 160 Franklin St.
*Klipstein & Co., A., 644 Greenwich St.
R. I., Providence
Arnold, Hoffman & Co.

Argol, Crude
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Argol, Red Powdered
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Arsenic, Metallic
Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
England, Liverpool
Haddock Parker & Co., 14 Chapel St.
England, Manchester
Victors, Ltd., Victoria Bldg.
Mo., St. Louis
*Mallinckrodt Chemical Works, 3600 N. 2d St.
N. J., Perth Amboy
Raritan Copper Works
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Smelting & Refining Co.
*Beer, Sondheimer & Co., 61 Broadway
*Harshaw, Fuller & Goodwin Co., 100 William St.
*Leggett & Bro., 301 Pearl St.
*Fuerst Bros. & Co., 2 Stone St.

Arsenic (Powder)
N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.

Arsenic, Red
N. Y., New York City
*Chemical Importing & Mfg. Co., 90 West St.
Marden, Orth & Hastings Co., 61 Broadway
*Philipp Bros. Inc., 29 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.

Arsenic, Red, Technical
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Arsenic Trioxide

Md., Baltimore
Davison Chemical Co., South and German Sts.
Mass., Boston
U. S. Smelting, Refining & Mining Co., 5 Congress St.
Mo., St. Louis
*Heil Chemical Co., Henry, 210–214 S. 4th St.
N. J., Maurer
American Smelting & Refining Co.
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Edgertyn Aniline Corp., 118 William St.
Eimer & Amend, 205–211 3d Ave.
Hill's Sons Co., Edw., 64 Wall St.
Lehn & Fink, Inc., 120 William St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
*Nitrate Agencies Co., 102 Pearl St.
*Pfaltz & Bauer, 300 Pearl St.
*Philipp Bros., Inc., 29 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
*Tennant Sons & Co., 100 William St.
U. S. Metals Refining Co., 42 Broadway
*Van Brunt & Co., Inc., J. A., 114 John St.
White Tar Co., 6 Cliff St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.
Ont., St. Catharines
Coniagas Reduction Co., Ltd.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Smith, Kline & French Co., 431 Arch St.
*Thomas, Arthur H., Co., W. Washington Square
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.

Arsenic, White (*see Arsenic Trioxide*)

Arsenic, Yellow, Technical

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Arsenious Chloride

Mo., St. Louis
Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Arsenious Oxide (*see Arsenic Trioxide*)

Arsphenamine

N. Y., New York City
Farbwerke-Hoechst Co., 113 Hudson St.
Takamine Laboratory, Inc.
Pa., Philadelphia
Dermatological Research Laboratories

Asbestos

Ill., Chicago
*Central Asbestos & Magnesia Co., 214–216 W. Grand Ave.
Sall Mountain Co., 230 S. LaSalle St.
N. Y., New York City
*Dunn & Kruse, 53 Park Row
Johns-Manville Co., H. W., Madison Ave. and 41st St.
Keasbey Co., Robert A., West and Bank Sts.
New Jersey Asbestos Co., 1 Water St.
Ohio, Cincinnati
Carey Co., Phillip
Pa., Ambler
Keasbey & Mattison Co.
Pa., Erie
Watson Co., H. F.
Pa., Franklin
Franklin Mfg. Co.
Pa., Philadelphia
*Lavino & Co., A. J., Bullitt Bldg.
Pa., Reynoldsville
Asbestos Textile Co.
Pa., Scranton
Sall Mountain Co.

Ash

Colo., Denver
Denver Fire Clay Co., 1742 Champ St.
Ill., Chicago
Morton Salt Co., 80 E. Jackson Blvd.
Mich., Detroit
Michigan Alkali Co., Ford Bldg.
Michigan Carbon Works, Carbon and Forman Aves.
N. Y., New York City
General Chemical Co., 25 Broadway
*Hill's Sons Co., Edw., 64 Wall St.
*Wing & Evans, 22 William St.
N. Y., Syracuse
Solvay Process Co.
Ohio, Barberton
Columbia Chemical Co.

Ash—*cont.*

Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., 317-323 Electric Bldg.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
Pa., Pittsburgh
*Columbia Chemical Co.,. Frick Bldg.
R. I., Providence
Arnold, Hoffman & Co.

Ash, Concentrated

Mich., Wyandotte
*Ford Co., J. B.

Ash, Bone

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.

Ash, Soda (*see Sodium Carbonate*)

Asphalt (*see also Paving, Roofing*)

Cal., Los Angeles
Union Oil Co. of Cal., 215 W. 7th St.
Ky., Georgetown
Indian Refining Co.
Mass., Boston
Warren Bros. Co., 59 Temple Place
N. Y., New York City
*Asphalt Construction Co., 208 Broadway
Barrett Co., 17 Battery Place
Indian Refining Co., 17 Battery Place
*Lamson & Bro., John L., 80 Maiden Lane
Texas Co., 17 Battery Place
Pa., Erie
*Watson Co., H. F.
Pa., Philadelphia
Atlantic Refining Co.
Barber Asphalt Paving Co., Land Title Bldg.
Pa., Pittsburgh
Atlantic Refining Co.
Gulf Refining Co., Frick Bldg.

Asphalt Compounds (*see Asphalt*)

Asphalt Putty

Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.

Asphaltum

Mo., St. Louis
American Asphalt Association
N. Y., New York City
*Scheel, Wm. H., 159 Maiden Lane
Pa., Pittsburgh
Gulf Refining Co.

Aspirin

Mo., St. Louis
Monsanto Chemical Works, 1800 S. 2d St.
N. Y., New York City
Bayer Co., Inc., 117 Hudson St.

Atropine Sulphate

Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.

Aubepine, Liquid

N. Y., New York City
Bush & Co., W. J., 100 William St.

Auramine O

N. Y., New York City
*Geisenheimer & Co., 134 Cedar St.

Aurantine (*see Extracts, Osage Orange*)

Avenin

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Azobenzol

Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 So. 4th St.
Ohio, Columbus
*Laboratory Supply Co., 236 N. 3d St.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711-19 Forbes St.

Azococcine 2R

N. Y., Cook's Falls
Beaverkill Color & Chemical Co., The

Azotine

Ga., Savannah
*Crum & Co., W. R.
Ill., Chicago
*Sardy, J. R., 140 W. Van Buren St.
Ind., Marion
Western Drop Forge Works
Md., Baltimore
*White & Co., Thos. H., Reed Bldg.
N. Y., New York City
*Heller-Hirsh & Co., 62 William St.

Azo Toluol, Amido

N. Y., New York City
Chemical Co. of America, 28 Platt St.

Azotoluol Ortho

Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.

Azotoluol Ortho—*cont.*

Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Azoxybenzol

Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Babbitt Metal

Cal., San Francisco
Selby Smelting & Lead Co., Merchants Exchange Bldg.
Ill., Chicago
Eagle Picher Lead Co., 208 S. La Salle St.
Great Western Smelting & Refining Co., 41st and Wallace Sts.
Raymond Lead Co., 940 W. Huron St.
Ryerson & Son, Jos. T., 16th and Rockwell Sts.
Ind., East Chicago
U. S. Reduction Co.
Ky., Louisville
Belknap Hardware & Mfg. Co.
Mich., Detroit
Michigan Smelting & Refining Co., 1703 Jos Campau
N. Y., Brooklyn
Atlantic Smelting & Refining Co., 36-42 Delevan St.
Standard Rollings Mills Co., Inc.
N. Y., Lockport
Electric Smelting & Aluminum Co.
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Eagle Smelting & Refining Works
Magnolia Metal Co., 115 Bank St.
Magnus Co., Inc., 111 Broadway
Nassau Smelting & Refining Works, 607 W. 29th St.
National Lead Co., 111 Broadway
United Lead Co., 111 Broadway
Pa., Philadelphia
Ajax Metal Co., 48 Richmond St.
American Manganese Bronze Co., Holmesburg
North American Smelting Co., 9th and Thompson Sts.
U. S. Smelting Works, 1615 Spring Garden St.
Pa., Pittsburgh
Electric-Vanadium Reduction Co., Vanadium Bldg.
Keystone Bronze Co.
Westinghouse Electric Mfg. Co.
Pa., South Bethlehem
Bethlehem Steel Co.

Bacterial Products

Mich., Detroit
Digestive Ferments Co.
Parke, Davis & Co.
Pa., Philadelphia
Mulford Co., H. K.

Bakelite

N. Y., New York City
General Bakelite Co., 2 Rector St.

Balsams

Mich., Charlotte
Charlotte Drug Co.

Barium Compounds

Cal., San Francisco
Beckman & Linden Engineering Corp., 415 Balboa Bldg.

Barium Dioxide (*see Barium Peroxide*)

Barium Acetate

N. Y., New York City
Eimer & Amend, 3rd Ave. and 18th St.
*Klipstein & Co., A., 644 Greenwich St.
Squibb, E. R. & Sons., 80 Beekman St.

Barium Binoxide (*See Barium Peroxide*)

Barium Bromate

Mich., Midland
Dow Chemical Co.

Barium Bromide

Mich., Midland
Dow Chemical Co.

Barium Carbonate

Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Chemical Products Co., 612-616 Majestic Bldg.
Ill., Chicago
Chicago Copper & Chemical Co., 111 W. Jackson Place
*Laboratory Materials Co., 7404 Calumet Ave.
Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Chemical Importing & Mfg. Co., 90 West St.
*Klipstein & Co., A., 644 Greenwich St.

Barium Carbonate—*cont.*

Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Roessler & Hasslacher Chemical Co., 100 William St.
Warner Chemical Co., 52 Vanderbilt Ave.
*Williams & Son, Inc., John T.

Ohio, Cincinnati
Elkhorn Mining & Mfg. Co., 58 Main St.

Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Tenn., Sweetwater
Durex Chemical Works

Barium Carbonate, Precipitated

W. Va., Charleston
Rollin Chemical Co., Inc.

Barium Chlorate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
*Lathrop, H. R., & Co., Inc., 194 Water St.

Barium Chlorate

W. Va., Charleston
Rollin Chemical Co., Inc.

Barium Chloride

Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.

Colo., Denver
Chemical Products Co., 612 Majestic Bldg.

Ill., Chicago
Chicago Copper & Chemical Co., 111 W. Jackson Place
*Daigger & Co., A., 52–56 W. Kinzie St.
Midland Chemical Co., 80 E. Jackson Blvd.
*Stresen-Reuter & Hancock, Inc.

Mo., St. Louis
Mallinckrodt Chemical Works

N. Y., Brooklyn
Wiarda, John C., & Co., 273 Greene St.

N. Y., New York City
*Bush, Beach & Gent, Inc., 80 Maiden Lane
*Chemical Importing & Mfg. Co., 90 West St.
*Gabriel & Schall, 205 Pearl St.
Katzenbach & Bullock Co., 100 William St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Roessler & Hasslacher Chemical Co., 100 William St.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.

Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
*Harshaw, Fuller & Goodwin Co.

Pa., Philadelphia
*Ferguson Bros., 109 Chestnut St.
Foote Mineral Co., Inc., 111 N. 19th St.
Harrison Works, 35th and Grays Ferry Road
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Tenn., Sweetwater
Durex Chemical Works

W. Va., Charleston
Rollin Chemical Co., Inc.

England, Manchester
*Hall, George D. A., 33 Mosley St.

Barium Fluoride

N. Y., Brooklyn
Highfield, John W., 248 N. 10th St.

N. Y., New York City
General Chemical Co., 25 Broad St.

Barium Hydrate (*see Barium Hydroxide*)

Barium Hydroxide

Ill., Chicago
Chicago Copper & Chemical Co., 111 Jackson Place, W.

N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.

N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway

Pa., Philadelphia
Foote Mineral Co., Inc., 111 N. 19th St.

England, Manchester
*Hall, George D. A., 33 Mosley St.

Barium Nitrate

Colo., Denver
Chemical Products Co., The, 612 Majestic Bldg.

England, Manchester
*Hall, George D. A., 33 Mosley St.

Ill., Chicago
Chicago Copper & Chemical Co., 111 W. Jackson Place

N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.

Barium Nitrate—*cont.*

N. Y., New York City
*Chemical Importing & Mfg. Co., 90 West St.
DuPont Chemical Works, 120 Broadway
*Gabriel & Schall, 205 Pearl St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Roessler & Hasslacher Chemical Co., 100 William St.
*Williamson & Co., 120 Broadway
Pa., Philadelphia
Foote Mineral Co., Inc., 111 N. 19th St.
Harrison Works, 35th and Grays Ferry Road
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Thomas Co., Arthur H., W. Washington Square
W. Va., Charleston
Rollin Chemical Co., Inc.

Barium Oxide

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Pa., Philadelphia
Foote Mineral Co., 111 N. 19th St.

Barium Peroxide

Colo., Denver
Chemical Products Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., 244 Madison Ave.
Pa., Philadelphia
Foote Mineral Co., Inc., 111 N. 19th St.
W. Va., Charleston
Rollin Chemical Co., Inc.

Barium Salts (*see also Specific Headings*)

Cal., San Francisco
Barbour Chemical Works, 707 West Coast Life Bldg.
Colo., Denver
Chemical Products Co., 616 Majestic Bldg.
Ill., Chicago
Chicago Copper & Chemical Co., 111 W. Jackson Blvd.
N. J., Jersey City
Lamar Chemical Works, 44-56 Lewis Ave.
N. Y., New York City
Baryta Mfg. Co., 205 Pearl St.
Butterworth-Judson Corp., 61 Broadway
Clinchfield Products Co., 120 Broadway
Durex Chemical Co., 320 Fifth Ave.
*Innis, Speiden & Co., 46 Cliff St.
Port Morris Chemical Works, 141 Locust Ave.
Ohio, Cincinnati
Elkhorn Chemical Co., Elsinore and Gilbert Aves.
Globe Chemical Co., 1135 Regent Ave.
W. Va., Charleston
Rollin Chemical Co., Inc.

Barium Sulphate

Colo., Denver
Chemical Products Co., 612 Majestic Bldg.
England, Smithy Bridge, near Rochdale
Dearhead Chemical Co.
Mo., Mineral Point
Point Milling & Mfg. Co.
Mo., St. Louis
Finch Mineral Milling Co., J. C., 101 Barton St.
Nulsen, Klein & Krausse Mfg. Co., Foot Sidney St.
N. J., Trenton
Utah Potash Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Dunn & Kruse, 53 Park Row
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
National Aniline & Chemical Co., 244 Madison Ave.
Oakland Chemical Co., 10 Astor Place
*Waldo, E. M. & F., 11 Broadway
Ohio, Cincinnati
Elkhorn Mining & Mfg. Co., 58 Main St.
Globe Chemical Co., 1135 Regent Ave.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Philadelphia
Foote Mineral Co., Inc., 111 N. 19th St.
Harrison Works, 35th and Grays Ferry Road

Barium Sulphate—*cont.*

W. Va., Charleston
Rollin Chemical Co., Inc.

Barium Sulphide

Colo., Denver
Chemical Products Co., 612 Majestic Bldg.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
W. Va., Charleston
Rollin Chemical Co., Inc.

Barium Sulphocyanate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
*Roessler & Hasslacher Chemical Co., 100 William St.

Barium Sulphocyanide (*see Barium Sulphocyanate*)

Barytes

Ala., Leeds
Cahaba Mineral Co.
Alaska, Sulzer
Sulzer, C. A.
Cal., San Francisco
Dill-Crosett, Inc., 235 Pine St.
Colo., Canon City
Taylor, A. L.
Del., Newport
Krebs Pigment & Chemical Co.
England, Smithy Bridge, near Rochdale
Dearhead Chemical Co.
Ga., Cartersville
Big Tom Barytes Co.
Georgia Peruvian Ocher Co.
New Riverside Ocher Co.
Paga Mining Co.
South Leasing Co.
Md., Baltimore
Cherokee Chemical Co., 109 Hollingsworth St.
Ill., East St. Louis
Illinois Mineral Milling Co.
Mo., Blackwell
Cole & Co., L. E.
McCready & Cole
Mo., Cadet
Long & Son, A.
White & Bro.
Mo., De Soto
Stocking & Sons, C. A.
Mo., Fletcher
Johnson Bros.
Mo., Halifax
Carter & Co., H. C.
Mo., Henley
Reavis & Sons, W. T.
Mo., Mineral Point
Point Milling & Mfg. Co.
Mo., Potosi
Carr, A. H.
Casey & McGregor
Long, James
South East Wisconsin Lead Co.
Mo., St. Louis
Finck Mineral & Mining Co., J. C., 101 Barton St.
Nulsen, Klein & Krausse Mfg. Co., Levee and Sidney Sts.
Potosi Lead, Barytes & Mercantile Co., 721 Locust St.
Washington Land & Mining Co., 307 Washington St.
Mo., Tiff
U. S. Barytes Co.
N. C., Asheville
Betts & Co., Anson G.
N. C., Bessemer City
Lawton, Charles L.
N. C., Stackhouse
Carolina Barytes Co.
Gahagan, B. W.
Stackhouse, A. & C.
N. Y., Brooklyn
*Miner-Edgar Co., 52 Warren St.
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.
*Doherr, Grimm & Co., 87 Gold St.
Durex Chemical Co., 320 Fifth Ave.
*Fuerst Bros. & Co., 2 Stone St.
Thompson-Weinman & Co., 100 William St.
Pa., Philadelphia
Foote Mineral Co., 111 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
Pittsburgh-Potosi Lead Co., 5527 Ellsworth Ave.
Tenn., Del Rio
Adams, J. N.
Tenn., Sweetwater
Doherty, J. F.
Moore, H. J.
Va., Evington
Langhorne, R. H.

Bases, Synthetic and Organic, Perfume, Chemical and Drug

N. Y., New York City
Brandes Co., The, 8th Ave.

Bauxite

Pa., Philadelphia
Harrison Bros. & Co., 35th and Grays Ferry Road
Lavino & Co., E. J., Bullitt Bldg.
Pennsylvania Salt Mfg. Co., 115 Chestnut St.

Bauxite—*cont.*

Pa., Philadelphia—cont.
Republic Mining & Mfg. Co., Harrison Bldg.
Pa., Pittsburgh
American Bauxite Co., Oliver Bldg.
Tenn., Chattanooga
Cherokee Mining Co.

Benzaldehyde

N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.
N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.
Chemical Co. of America, 28 Platt St.
Chiris, Antoine, Co., 20 Platt St.
*Dodge & Olcott Co., 87 Fulton St.
*Fritzsche Bros., 82 Beekman St.
*Heine & Co., 7 Platt St.
*Gross & Co., Geo. V., 30 Old Slip St.
*Lueders, Geo., & Co., 218 Pearl St.
*Magnus, Maybee & Reynard, 257 Pearl St.
McKesson & Robbins, Inc., 91 Fulton St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*Rockhill & Vietor, 22 Cliff St.

Benzene (*see Benzol*)

Benzidene

N. Y., New York City
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*Williamson & Co., 120 Broadway
Pa., Reading
Althouse Chemical Co.

Benzidine, Base and Sulphate

Ill., Quincy
Monroe Color & Chemical Co.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Drug & Dyestuff Corp., 120 Broadway
Marden, Orth & Hastings Co., 61 Broadway

Benzine

Cal., Los Angeles
Southern Refining Co., 129 W. 2d St.
Union Oil Co., of California, 215 W. 7th St.
Md., Baltimore
Island Petroleum Co., Keyser Bldg.
N. Y., New York City
Standard Oil Co., 26 Broadway
Ohio, Cincinnati
Moore Oil Co., York and McLean Ave.
Pa., Bradford
Emery Mfg. Co.
Pa., Oil City
Crystal Oil Works
Germania Refining Co.
Pa., Petrolia
Petrolia Refining Co.
Pa., Philadelphia
Atlantic Refining Co.
Crew-Levick Co., Land Title Bldg.
Sun Co., Morris Bldg.
Union Petroleum Co., 135 S. 2d St.
Pa., Pittsburgh
Gulf Refining Co., Frick Bldg.
Pa., Warren
Warren Refining Co.

Benzo Azurine

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Benzol

Ala., Birmingham
Gulf States Steel Co., Brown-Marx Bldg.
Tennessee Coal, Iron & R. R. Co.
Ala., Woodward
Woodward Iron Co.
Cal., San Francisco
Pacific Refining & Roofing Co., 16th and Texas Ave.
Colo., Denver
Colorado Fuel & Iron Co., Boston Bldg.
Ill., Aurora
Coal Products Mfg. Co.
Ill., Chicago
By-Products Coke Corp.
*Furman, Jas. H., 326 W. Madison St.
Gas Oil Co. of Indiana, People's Gas Bldg.
Illinois Steel Co., 208 S. LaSalle St.
Inland Steel Co.
Lewis Mfg. Co., F. J., 2500 S. Robey St.
Ill., Waukegan
North Shore Gas Co.
Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.
Ind., Linton
Linton Gas Co.
Ind., Muncie
Central Indiana Gas Co.
Ind., Terre Haute
Indiana Coke & Gas Co.
Mass., Boston
Avery Chemical Co., 88 Broad St.
Cabot, Inc., Samuel, 141 Milk St.
New England Fuel & Trans. Co., 111 Devonshire St.
Mich., Wyandotte
Michigan Alkali Co.
Minn., Duluth
Minnesota Steel Co., Morgan Park Sta.

Benzol—*cont.*

Minn., St. Paul
Minnesota By-Product Coke Co.
Minn., West Duluth
Zenith Furnace Co.
Mo., St. Louis
Laclede Gas Light Co., 1017 Olive St.
N. J., Elizabeth
Bayway Chemical Co.
N. J., Jersey City
Seaboard By-Product Coke Co.
N. J., Newark
Camden Coke Co., Broad and Bank Sts.
N. Y., Buffalo
Buffalo Union Furnace Co.
Lackawanna Steel Co.
N. Y., Lackawanna
Lackawanna Steel Co.
N. Y., New York City
Barrett Co., 17 Battery Place
Berlin Aniline Works, 213 Water St.
DuPont Chemical Works, 120 Broadway
*Herman & Herman, Inc., 6 Church St.
Holliday, Read & Sons, Ltd., 160 Franklin St.
*Jordan, Wm. E., 11 Cliff St.
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
*Lathrop & Co., Inc., H. R., 194 Water St.
Marden, Orth & Hastings Co., 61 Broadway
New Jersey Products, Inc., 165 Broadway
Niagara Coke Corp., 6 Church St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Williamson & Co., 120 Broadway
Zobel & Co., Inc., Ernst, 38 Water St.
N. Y., Syracuse
Semet-Solvay Co.
N. Y., Solvay
Solvay Process Co.
Ohio, Cleveland
American Steel & Wire Co., Western Reserve Bldg.
Dover By-Product Coke Co., Leader-News Bldg.
Harshaw, Fuller & Goodwin Co., Electric Bldg.
River Furnace Co.
Toledo Furnace Co., Western Reserve Bldg.
United Furnace Co., Western Reserve Bldg.
Ohio, Hamilton
Hamilton-Otto Coke Co.
Ohio, Lorraine
National Tube Co.
Ohio, Youngstown
Brier Hill Steel Co.
Republic Iron & Steel Co., Republic Bldg.
Youngstown Sheet & Tube Co.
Ohio, Steubenville
LaBelle Iron Works
Pa., Carnegie
Aetna Chemical Co.
Pa., Chester
Philadelphia Suburban Gas & Electric Co.
Pa., Johnstown
Cambria Steel Co.
Pa., McKeesport
Allegheny By-Product Coke Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Powers-Weightman-Rosengarten Co.
Pa., Pittsburgh
Carnegie Steel Co.
National Tube Co., Frick Bldg.
Pa., South Bethlehem
Bethlehem Steel Co.
Tenn., Chattanooga
Chattanooga Gas & Coal Products Co., James Bldg.
Wash., Seattle
Seattle Lighting Co., 360 Stuart Bldg.
Wis., Milwaukee
Milwaukee Coke & Gas Co.
Milwaukee Gas Light Co.
Northwestern Iron Co., First National Bank Bldg.

Benzoaminoazo

N. Y., New York City
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Benzo Naphthol

N. Y., New York City
*Chromos Chemical Co., Inc., Aeolian Hall

Benzo Purpurine 4-B

Ill., Quincy
Monroe Color & Chemical Co.
N. Y., New York City
*Geisenheimer & Co., 134 Cedar St.

Benzoin

N. Y., New York City
McKesson & Robbins, Inc., 91 Fulton St.

Benzol, Amido Azo, Hydrochloride

N. Y., New York
Geisenheimer & Co., 134 Cedar St.

Benzol Binitro
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Benzol 90°
Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.
Ill., Chicago
Lewis Mfg. Co., F. J., 2500 S. Robey St.
N. Y., New York City
DuPont Chemical Works, 120 Broadway

Benzol, 100°
Ill., Chicago
Lewis Mfg. Co., F. J., 2500 S. Robey St.

Benzol, C. P.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.

Benzol, Nitro
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Benzol, Pure
Ill., Chicago
Lewis Mfg. Co., F. J., 2500 S. Robey St.

Benzol, Pure, Crystallizable, 99½-100%
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Benzoyl Chloride
N. Y., New York City
Chemical Co. of America, 28 Platt St.

Benzyl Acetate
N. Y., New York City
Floasynth Laboratories, Inc., 231 Pearl St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Benzyl Benzoate
N. Y., New York City
Florasynth Laboraories Inc., 231 Pearl St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Benzyl Chloride
N. J., Elizabeth
Bayway Chemical Co.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Chromos Chemical Co., Inc., Aeolian Hall
*Heminway, Inc., Frank, 115 Broadway
*Klipstein & Co., A., 644 Greenwich St.
Middlesex Aniline Co., Inc., 149 Broadway

Benzyle
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Beryllium
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Beta-Naphthol
England, Manchester
*Willcocks & Co., Ltd., H. S., 5, Beaver St.
Mo., St. Louis
Mallinckrodt Chemical Works
N. J., Bound Brook
Calco Chemical Co.
N. J., Newark
Central Dyestuff & Chemical Co., Plum Pt. Lane
N. Y., Hastings-on-Hudson
*Zinsser & Co.
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
Berlin Aniline Works, 213 Water St.
Chemical Co. of America, 28 Platt St.
*Geisenheimer & Co., 134 Cedar St.
Heller & Merz Co., 505 Hudson St.
*Heminway, Inc., Frank, 115 Broadway
Independent Chemical Co., 72 Front St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*Williamson & Co., 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Wappingers Falls
Standard Aniline Products, Inc.
Ohio, Cleveland
Sherwin-Williams Co.

Beta-Naphthol—*cont.*

Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Beta-Naphthol Benzoate

N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.
Organic Products Corp., 469 State St.

Beta-Naphthol, Resublimed, U.S.P.

N. Y., New York City
Organic Products Corp., 469 State St.

Beta Napthylamine

Cal., San Francisco
California Aniline & Chemical Co., 33 Clementina St.
N. Y., New York City
*Geisenheimer & Co., 134 Cedar St.
Marden, Orth & Hastings Co., 61 Broadway

Bilein

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Bimsstein

N. Y., New York City
*Rhodes & Co., James H., 162 William St.

Binitrophenol (*see Dinitrophenol*)

Binitrotoluol (*see Dinitrotoluol*)

Biologic Preparations

Pa., Philadelphia
Dean, J. Atlee, 5420 Baltimore Ave.

Biological Products

Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.
Md., Baltimore
Sharp & Dohme
Mich., Detroit
Parke, Davis & Co.
N. Y., Pearl River
Lederle Antitoxin Laboratories
Pa., Philadelphia
Mulford Co., H. K., 412 S. 13th St.

Biologic Reagents

Dean J. Atlee, 5420 Baltimore Ave.

Bismark Brown

Mich., Holland
Holland Aniline Co.
N. Y., Monticello
Mont Color & Chemical Co.
N. Y., New York City
*Dicks David Co., Inc., 302 Broadway
*Dye Products & Chemical Co., Inc., 200 5th Ave.
Marden, Orth & Hastings Co., 61 Broadway
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Bismark Brown, Y & R

R. I., Providence
Industrial Chemical Co., Inc., P. O. box 1288

Bismuth (Metal)

Ill., Chicago
Illinois Smelting & Refining Co.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Smelting & Refining Co.
*General Chemical Co., 25 Broad St.
*Hoffman-LaRoche Chemical Works, 440 Washington St.
*Lehn & Fink, Inc., 120 William St.
*McKesson & Robbins, Inc., 91 Fulton St.
*Merck & Co., 54 Park Place
*New York Quinine & Chemical Works, 114 William St.
United States Metal Refining Co., 165 Broadway
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
*Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
*Smith, Kline & French Co., 431 Arch St.
*Trotter & Co., Nathan, 36 N. Front St.

Bismuth Chloride

N. Y., New York City
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Merck & Co., 45 Park Place
*Philipp Bros., Inc., 29 Broadway
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
*Thomas, Arthur H., Co., W. Washington Square

Bismuth Subgallate

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.

Bismuth Subnitrate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
New York Quinine & Chemical Works, Ltd.
Squibb & Sons, E. R., 80 Beekman St.
*Wood, Inc., J. Early, 21 Platt St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Smith, Kline & French Co., 431 Arch St.

Bitumen

N. Y., New York City
Barrett Co., 17 Battery Place
Standard Oil Co. of New York
Texas, Houston
Texas Co.

Black, Anticorrosive

N. Y., New York City
Martin, L., Co.

Black, Bone

Mich., Detroit
Michigan Carbon Works, Carbon and Forman Aves.
N. J., Newark
Lister Agricultural Chemical Works
N. Y., New York City
*Binney & Smith, 81 Fulton St.
Industrial Chemical Co., Inc., 200 Fifth Ave.
*Osborn Co., C. J., 132 Nassau St.
*Wilckes-Martin-Wilckes Co., 135 William St.
Pa., Philadelphia
Baugh & Sons Co., 20 S. Delaware Ave.

Black, Carbon

Mass., Boston
Cabot, Godfrey L., 204 Washington St.
N. Y., New York City
*Binney & Smith Co., 81 Fulton St.
Industrial Chemical Co., Inc., 200 Fifth Ave.
Martin Co., L., 81 Fulton St.
*Osborn Co., C. J., 132 Nassau St.
*Smith & Co., J. Lee, 23 Jacob St.
*Wilckes-Martin-Wilckes Co., 135 William St.

Black, Chrome Blue

N. Y., New York City
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Black, Chrome Bottom

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Black, Direct

Ill., Quincy
Monroe Color & Chemical Co.
N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway

Black, Drop

N. Y., New York City
*Binney & Smith Co., 81 Fulton St.

Black, Fertilizer

N. Y., New York City
Martin Co., L., 81 Fulton St.

Black, Frankfort

N. Y., New York City
*Binney & Smith Co., 81 Fulton St.

Black, Gas

N. Y., New York City
*Binney & Smith Co., 81 Fulton St.
Industrial Chemical Co., Inc., 200 Fifth Ave.

Black, Ivory

N. Y., New York City
*Binney & Smith Co., 81 Fulton St.
*Osborn Co., C. J., 132 Nassau St.

Black, Lamp (*see Lamp Black*)

Black Lead

N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.
*Dunn & Kruse, 53 Park Row

Black, Paper

N. Y., New York City
European Color & Chemical Co., 154 Nassau St.
Martin Co., L., 81 Fulton St.

Black, Paris

N. Y., New York City
*Binney & Smith Co., 81 Fulton St.

Black, Rubber

N. Y., New York City
*Binney & Smith Co., 81 Fulton St.

Black, Soot

N. Y., New York City
*Binney & Smith Co., 81 Fulton St.

Black, Sulphur (*see also Dyestuffs*)

N. J., Passaic
*Wolf, Jacques, & Co.

N. Y., New York City
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Co., 61 Broadway

N. Y., Wappingers Falls
Standard Aniline Products, Inc.

Black, Technical

N. Y., New York City
*Osborn Co., C. J., 132 Nassau St.

Black, Vine

N. Y., New York City
*Binney & Smith Co., 81 Fulton St.
*Osborn Co., C. J., 132 Nassau St.

Blacks

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.

Blanc Fixe (*see Barium Sulphate*)

Blanco Bonastre

Mo., St. Louis
Mineral Refining & Chemical Corp.

Bleach

Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.

Mich., Midland
Dow Chemical Co.
Midland Chemical Co.

N. Y., Albany
Albany Chemical Co.
Wander & Son Chemical Co., S., 135 Church St.

N. Y., Brooklyn
Price, W. H., 55 7th Ave.

N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros. & Co., 2 Stone St.
General Chemical Co., 25 Broad St.
*Hill's Sons Co., Edward, 64 Wall St.
Industrial Chemical Co., 5th Ave. Bldg.
*Innis, Speiden & Co., Inc., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
*Lengfelt & Co., F. H., 100 Maiden Lane
Marden, Orth & Hastings Co., 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
*Nitrate Agencies Co., 102 Pearl St.
*Peters, White & Co., 55 John St.
*Riker, J. L. & D. S., 19 Cedar St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Sergeant & Co., E. M., 95 Madison Ave.
*Van Brunt & Co., Inc., J. A., 114 John St.
Warner Chemical Co., 52 Vanderbilt Ave.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.

N. Y., Niagara Falls
Niagara Alkali Co.

Ohio, Cleveland
Clark & Co., Fredk. G.
*Harshaw, Fuller & Goodwin Co.

Pa., Millvale
Hangsterfer Gottlieb Chemical Co.

Pa., Philadelphia
*Fergusson Bros., 109 Chestnut St.
Pennsylvania Salt Mfg. Co., Widener Bldg.

R. I., Providence
Arnold, Hoffman & Co., Inc.
*Lewis, John D.

Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Sq.

Utah, Salt Lake City
Utah Soap Co.

Va., Saltville
Mathieson Alkali Works, Inc., The

Blues

N. Y., New York City
*Waldo, E. M. & F., 11 Broadway

Blue, Benzo, B.B.

Ill., Quincy
Monroe Color & Chemical Co.

N. Y., Cook's Fall
Beaverkill Color & Chemical Co., The

Blue, Bleachers

N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.

Blue Benzo Sky

N. Y., Cook's Fall
Beaverkill Color & Chemical Co., The

Blue, Bronze

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Blue, Chinese

N. Y., New York City
Kohnstamm & Co., 87 Park Place
*Klipstein & Co., A. 644 Greenwich St.

Blues, Chrome Bottom

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Blue, C. P.

Ill., Chicago
*Stresen-Reuter & Hancock, Inc., 1501 S. Peoria St.

Blue, Cobalt

England, Essex, Loughton
Madderton & Co., Ltd.

Blue, Direct

N. Y., New York City
*Dicks David Co., Inc., 302 Broadway
*Drug & Dyestuff Corp., 120 Broadway
Marden, Orth & Hastings Co., 61 Broadway
Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Blue, Induline, W.S.

R. I., Providence
Industrial Chemical Co., Inc., P. O. Box 1288

Blue, Insoluble (*see Blue, Prussian*)

Blue, Methyline

N. J., Bound Brook
Calco Chemical Co.
N. Y., New York City
*Binney & Smith Co., 81 Fulton St.
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
*Madero Bros., Inc., 115 Broadway
Marden, Orth & Hastings Co., Inc., 61 Broadway

Blue, Milori

N. Y., New York City
Kohnstamm & Co., 87 Park Place
N. Y., Glen Falls
Imperial Color Works, Inc.

Blue, Oil Soluble

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Blue, Prussian

N. Y., Glen Falls
Imperial Color Works, Inc.
N. Y., New York City
*Campbell, C. W., 11 Cliff St.
Heller & Merz Co., The, 505 Hudson St.
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
Kohnstamm & Co., H., 87 Park Place
Marden, Orth & Hastings Co., 61 Broadway
*Osborn Co., C. J., 132 Nassau St.
Ohio, Cleveland
Fleming Chemical Co., The, 1711 Crawford Road
Ohio, Marietta
Northwestern Chemical Co.

Blue, Prussian, Soluble

Ohio, Cleveland
Fleming Chemical Co., The, 1711 Crawford Road
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Blue, Soluble

N. Y., New York City
*Ansbacher & Co., A. B., 527 Fifth Ave.
*Dicks David & Broadfoot, Inc., 302 Broadway
Farbwerke-Hoechst Co., 122 Hudson St.
Heller & Merz Co., The, 503 Hudson St.
*Hirsh & Son, L., 368 Greenwich St.
*Ketchum & Co., 65 Fulton St.
Kohnstamm & Co., H., 87 Park Place
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
*Lavanburg, Fred, 100 William St.
Reynolds & Devoe Co., 103 Fulton St.
*Tieman & Co., M. F., 100 William St.
*Waldo, E. M. & F., 11 Broadway

Blue, Ultramarine

Cal., San Francisco
Wheeler, Reynolds & Stauffer, 624 California Ave.
N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
Heller & Merz Co., 503 Hudson St.
*Waldo, E. M. & F., 11 Broadway
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.
W. Va., Huntington
Standard Ultramarine Co.

Blue, Water Soluble

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Bluestone (*see Copper Sulphate*)

Blue Vitriol (*see Copper Sulphate*)

Bluing, Indigo (*see Indigo*)
N. Y., New York City
Androvette, E. E., 235 Water St.

Boiler Compounds
Pa., Fernwood
Modoc Co., Inc.

Boldine Hydrobromide
Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Boneblack (*see Black, Bone*)

Bone Ash (*see Ash, Bone*)

Bone, Ground
N. Y., New York City
Lister Agricultural Chemical Co., 2 Rector St.

Bone, Hard
Ohio, Cincinnati
Joslin-Schmidt Co., 3223 Spring Grove Ave.

Bone, Steamed
Ohio, Cincinnati
Joslin-Schmidt Co., 3223 Spring Grove Ave.

Boracic Acid (*see Acid, Boric*)

Borax (*see Sodium Tetraborate*)

Bordeaux, Anthranine Alizarin
Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Bordeaux, Drainine, B_2S
Pa., Reading
Althouse Chemical Co.

Borolyptol
N. Y., Yonkers
Palisade Mfg. Co.

Bromine
England, London
American Commerce Co., Ltd., The, 19 St. Bride St.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
*Heil, Chemical Co., Henry, 210-214 So. 4th St.
N. Y., New York City
Edgertyn Aniline Corp,, 118 William St.
Eimer & Amend, 205-211 Third Ave.
Heyden Chemical Works, 135 William St.
Merck & Co., 45 Park Place
Squibb & Sons, E. R., 80 Beekman St.
*Wood, Inc., J. Early, 21 Platt St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
*Thomas Co., Arthur H., W. Washington Square
W. Va., Hartford
American Calcium Chloride Works
W. Va., Malden
Dickinson Co., J. Q.

Bromine, Commercial
Mich., Midland
Dow Chemical Co.

Bromine, Purified
Mich., Midland
Dow Chemical Co.

Bromium Chloride
W. Va., Hartford
Mason Coal & Chemical Co.

Bromo Styrol
N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.

Brown, Chrome
N. Y., New York City
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Browns, Direct (*Cotton*)
N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Browns, Direct, G
R. I., Providence
Industrial Chemical Co., Inc., P. O. Box 1288

Brown, Direct Fast Red
Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Cadmium (Metal)
Del., Newport
Krebs Pigment & Chemical Co.
Ill., Chicago
*Rhodes & Co., James H., 157 W. Austin Ave.
Mich., Detroit
Michigan Smelting & Refining Co.

Cadmium (Metal)—*cont.*

N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Merck & Co., 45 Park Place
U. S. Metal Refining Co., 42 Broadway
U. S. Smelting Co., Inc., 120 Broadway
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Cadmium Bromate

Mich., Midland
Dow Chemical Co.

Cadmium Bromide

Mich., Midland
Dow Chemical Co.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Cadmium Chloride

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Merck & Co., 45 Park Place
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Cadmium Nitrate

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Cadmium Salts (*see Specific Headings*)

Cadmium Sulphate

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Cadmium Sulphide

Ill., Chicago
Midland Chemical Co., 80 E. Jackson Blvd.
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Ohio, Cleveland
Grasselli Chemical Co.
*Harshaw, Fuller & Goodwin Co.

Caesium Salts

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Caffeine

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.
Mo., St. Louis
Monsanto Chemical Works, 1800 S. 2d St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Hoffman-La Roche Chemical Works, 440 Washington St.
*Lathrop, H. R., & Co., Inc., 194 Water St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place

Calcium Acetate

Cal., San Francisco
Noble Electric Steel Co., 995 Market St.
Fla., Jacksonville
Florida Wood Products Co.
Ky., Kragon
Kentucky Wood Products Co., Inc.
Mass., Boston
Avery Chemical Co., 88 Broad St.
Merrimac Chemical Co.
Mich., Cadillac
Cadillac Chemical Co.
Cummer, Diggins Co.
Mich., Detroit
Berry Bros., Ltd.
Charcoal Iron Co. of America
Charcoal Co. of America
Lake Superior Iron & Chemical Co.
Mich., East Jordan
East Jordan Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Acidalia
Sullivan Chemical Co.
N. Y., Binghamton
Collier & Sons, W. C.
N. Y., Buffalo
Wood Products Co.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Fuller & Co., Ralph L., 4 Rector St.
Georgia Pine Turpentine Co. of New York
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Calcium Acetate—*cont.*

N. Y, New York City—cont.
Roessler & Hasslacher Chemical Co., 100 William St.
N. Y., Olean
Beerston Acetate Co.
Buckhannon Chemical Co.
Heinemann Chemical Co.
Newton Chemical Co.
Straight Creek Chemical Co.
N. Y., Tupper Lake
Tupper Lake Chemical Co.
N. Y., Vandalia
Vandalia Chemical Co.
Ohio, Cleveland
Cleveland-Cliffs Iron Co.
*Harshaw, Fuller & Goodwin Co.
Ore., Portland
Oregon Wood Distilling Co.
Pa., Bradford
Coryville Chemical Co.
Gaffney Wood Products Co.
Lewis Run Mfg. Co.
Maryland Wood Products Co.
Marvindale Chemical Co.
Pa., Mayburg
Tionesta Valley Chemical Co., Inc.
Pa., Pittston
Wyoming Chemical Co.
Pa., Williamsport
McKean Chemical Co.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
Tenn., Memphis
Forest Products Chemical Co.

Calcium Acid Phosphate

Ill., Chicago
Victor Chemical Works, 1810 Fisher Bldg.

Calcium Bromide

Mich., Midland
Dow Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Calcium Carbide

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Carbondale Calcium Co., 50 Church St.
Edgertyn Aniline Corp., 118 William St.
*Nitrate Agencies Co., 102 Pearl St.
Union Carbide Sales Co., 42d St. Bldg.

Calcium Carbonate, Precipitated, tech.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Klipstein & Co., A., 644 Greenwich St.

Calcium Chloride

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
England, Darlington
Parkin, Ness & Co., Quebec St.
England, Smithy Bridge, near Rochdale
Dearhead Chemical Co.
England, West Bromwich
Lewington Whitehouse, Olympic Works, Carters Green
Ill., Chicago
*Cooper & Nephews, Wm., 152 W. Huron St.
*Rhodes & Co., James H., 157 W. Austin St.
*Van Schaak & Co., Peter, 114 W. Lake St.
Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
Mich., Detroit
Parke, Davis & Co.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Whitelaw Bros. Chemical Co.
N. J., Jersey City
Interstate Chemical Co., 667 Garfield Ave.
N. Y., New York City
Baker & Bro., H. J., 81 Fulton St.
Barrett Co., The, 17 Battery Place
Cooper & Co., Charles, 194 Worth St.
*Doherr, Grimm & Co., 87 Gold St.
Edgertyn Aniline Corp., 118 William St.
Eimer & Amend, 205-211 Third Ave.
*Fuerst Bros. & Co., 2 Stone St.
Grasselli Chemical Co., 80 Maiden Lane
McKesson & Robbins, Inc., 91 Fulton St.
*Riker, J. L. & D. S., 19 Cedar St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Schwenker, Est., W. M., 342 E. 92d St.
West Disinfecting Co., Inc., 411 5th Ave.
*Wing & Evans, 22 William St.
*Wood, Inc., J. Early, 21 Platt St.
Zobel Co., Inc., Ernst, 38 Water St.
N. Y., Syracuse
Solvay Process Co.

Calcium Chloride—*cont*

Ohio, Pomeroy
Pomeroy Salt Co.
Pa., Carbondale
Carbondale Calcium Co.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythwood Sq.
Wash., Tacoma
Standard Chemical Co.
W. Va., Hartford
Mason Coal & Chemical Co.

Calcium Chloride, "3-C", 73% to 75%, Solid and Granulated

Pa., Carbondale
Carbondale Calcium Co.

Calcium Glycerophosphate

Pa., Philadelphia
Smith, Kline & French Co., 431 Arch St.

Calcium Hypochlorite

Cal., San Francisco
Rogers Chemical Co., R. R., 527-535 Commercial St.
Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.
R. I., Providence
Arnold, Hoffman & Co., Inc.

Calcium Nitrate

N. Y., New York City
*Tennant, C., Sons & Co., 100 William St.

Calcium Oleate

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Calcium Oxide

Ill., Chicago
*Rhodes & Co., J. H., 157 W. Austin St.
Mass., Boston
Merrimac Chemical Co., 33 Broad St.
Minn., Duluth
American Carbolite Co., 301 N. 55th Ave.
N. Y., New York City
Roessler & Hasslacher Chemical Co., 100 William St.
N. Y., Solvay
Solvay Process Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
Powers-Weightman-Rosengarten Co.

Calcium Palmitate

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Calcium Phosphate

England, Manchester
Victors, Ltd., Victoria Bldg.
Mo., St. Louis
Provident Chemical Works, 8011 Idaho Ave.
N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway
Merck & Co., 45 Park Place
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Calcium Phosphate, Pri.

N. Y., New York City
General Chemical Co., 25 Broad St.
Merck & Co., 45 Park Place
Warner Chemical Co., The, 52 Vanderbilt Ave.

Calcium Phosphate, Sec.

Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place

Calcium Phosphate, Tert.

Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place

Calcium Phosphide

N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.

Calcium Resinate

N. J., Harrison
National Oil Products Co., Essex and First St.

Calcium Resinate, Precipitated

Pa., Philadelphia
*Meyer & Sons, J., 480 Bourse Bldg.

Calcium Stearate

N. Y., Long Island City
Horn Co., A. C., Horn Bldg.

Calcium Stearate—*cont.*

N. Y., New York City
*Sloan & Russell, Inc., 132 Nassau St.
N. J., Harrison
National Oil Products Co., Essex and First Sts.
Pa., Philadelphia
*Meyer & Sons, J., 480 Bourse Bldg.

Calcium Sulphate

Ill., Chicago
United States Gypsum Co., 205 W. Monroe St.
Ill., Hoopeston
Iliff-Bruff Chemical Co.
Iowa, Fort Dodge
Fort Dodge Gypsum Co.
N. Y., Buffalo
Niagara Gypsum Co., 597 Michigan Ave.
Pratt & Lambert Co.
N. Y., New York City
*Dunn & Kruse, 53 Park Row
General Chemical Co., 25 Broad St.
Industrial Chemical Co., 5th Ave Bldg.
Roessler & Hasslacher Chemical Co., 100 William St.
Williamson & Co., D. D., 86 Fulton St.
N. Y., Rochester
American Gypsum Co.
N. Y., Syracuse
Solvay Process Co.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Okla., Enid
Independence Gypsum Co.
Pa., Philadelphia
Foote Mineral Co., Inc., 111 N. 19th St.
Harrison Works, 35th and Grays Ferry Road
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
Va., North Holston
Southern Gypsum Co.
Wash., Tacoma
Pacific Coast Gypsum Co.

Calcium Sulphate, Hydrated

N. Y., Syracuse
Solvay Process Co.

Calcium Superphosphates

Ill., Chicago
Morris & Co.
Swift & Co.
N. Y., New York City
American Agricultural Chemical Co.
International Agricultural Corp.
Ohio, Cleveland
Grasselli Chemical Co.

Calcium Sulpho Carbolate

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Calcium Sulphocyanate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Calomel (*see Mercurous Chloride*)

Camphor

Cal., San Francisco
*Dill-Crosett, Inc., 235 Pine St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros., & Co., 2 Stone St.

Camphor, Gum (*see Gum Camphor*)

Camphor, Monobromated

Mich., Midland
Dow Chemical Co.

Camphor, Refined

Mass., Boston
American Camphor Refining Co., 14 Fulton St.

Canadium

England, London
Franklin Chemical Co., Ltd.

Carbide

Minn., West Duluth
Carbic Mfg. Co.
N. Y., New York City
Linde Air Products Co., 30 E. 42d St.
Prest-O-Lite Co., Inc.
Union Carbide Co., 42d St. Bldg.
Ohio., Cleveland
National Carbon Co.
Va., Ivanhoe
National Carbide Co.

Carbolic Acid (*see Phenol*)

Carbon Bisulphide

Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
Wheeler, Reynolds & Stauffer, 624 California Ave.
Ill., Chicago
Daigger & Co., A., 52–56 W. Kinzie St.
Mich., Detroit
Dow Chemical Co.
Mo., St. Louis
*Heil Chemical Co., Henry, 210–214 S. 4th St.

Carbon Bisulphide—*cont.*

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Eimer & Amend, 205-211 Third Ave.
Independent Chemical Co., 72 Front St.
*Ketchum & Co., 65 Fulton St.
*Lathrop & Co., Inc., H. R., 116 Beekman St.
Merck & Co., 45 Park Place
National Gum & Mica Co., 59th St. and 11th Ave.
N. Y., Chauncey, Westchester Co.
Stauffer Chemical Co.
N. Y., Penn Yan
Taylor Chemical Co.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
W. Va., Charleston
Rollin Chemical Co., Inc.

Carbon Bisulphide, Commercial Crude or Technically Pure

W. Va., Charleston
Rollin Chemical Co., Inc.

Carbon Dioxide (*see also Carbonic Acid Gas*)

N. J., Elizabeth
Gilchrist Co., Robt.
Pa., Philadelphia
Carbon Dioxide & Magnesia Co., N. 29th St. and Montgomery Ave.

Carbon, Graphite

Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Carbon Tetrachloride

Cal., Pittsburg
Great Western Electro-Chemical Co.
Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
Daigger & Co., A., 54-56 W. Kinzie St.
Mich., Midland
Dow Chemical Co.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
*Bush, Beach & Gent., Inc., 80 Maiden Lane
Edgertyn Aniline Corp., 118 William St.
Eimer & Amend, 205-211 Third Ave.
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Roessler & Hasslacher Chemical Co., 100 William St.
*Schwenker, Inc., W. M., 340-344 E. 92d St.
Warner Chemical Co., The, 52 Vanderbilt Ave.
White Tar Co., 6 Cliff St.
Mo., St. Louis
Mallinckrodt Chemical Works
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., Electric Bldg.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
R. I., Providence
Lewis, John D.
W. Va., Charleston
Rollin Chemical Co., Inc.

Carbonic Acid Gas

N. J., Elizabeth
Gilchrist Co., Robt.
Ohio, Cleveland
Ohio Chemical & Mfg. Co., 1177 Marquette Road
Lennox Chemical Co., 1201 E. 55th St.
Pa., Philadelphia
Carbon Dioxide & Magnesia Co., N. 29th St. and Montgomery Ave.

Carpolene

N. Y., New York City
DuPont Chemical Works, 120 Broadway

Casein

Cal., San Francisco
California Aniline & Chemical Co., 33 Clementine St.
Mass., Boston
Bird & Co., J. A., & W., 88 Pearl St.
N. Y., New York City
Casein Co., 11 Pine St.
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros., & Co., 2 Stone St.
*Klipstein & Co., A., 644 Greenwich St.
*Innis, Speiden & Co., 46 Cliff St.
*Tennant, C., Sons & Co., 100 William St.

Casein—*cont.*

N. Y., New York City—cont.
*Wood, Inc., J. Early, 21 Platt St.
Zobel Co., Inc., Ernst, 38 Water St.
N. Y., Owego
American Casein Co.
National Casein Co.
Pa., Philadelphia
Union Casein Co., 2314 Wood St.
Scotland, Glasgow
Gemmill & Co., Wm. N., 142 Queen St.

Catalune

N. Y., New York City
*Farrell, William J., 115 Maiden Lane

Caustic Mixtures: 15%, 25%, 36%, 45%

Pa., Pittsburgh
*Mortlandt Chemical Co., 602 Fitzsimons Bldg.

Caustic Potash (*see Potassium Hydroxide*)

Caustic Soda (*see Sodium Hydroxide*)

Celite

N. Y., New York City
Celite Products Co., 11 Broadway

Cement

N. Y., New York City
Rhodes & Co., James H., 162 William St.

Celluloid and Celluloid Substitutes

Ill., Chicago
Redmanol Chemical Co., 636 W. 22d St.
Mass., Leominster
Viscoloid Co.
N. Y., New York City
Celluloid Co., 30 Washington Place
Celluloid Zapon Co.
DuPont de Nemours & Co., The, E. I., Arlington Works, 725–727 Broadway
Fiberloid Corp., 55 5th Ave.
General Bakelite Co., 2 Rector St.

Cement, Acid Proof

Ga., Atlanta
Hood Brick Co., B. Mifflin, Candler Bldg.
N. C., Charlotte
Chemical Construction Co.
N. Y., New York City
General Bakelite Co., 2 Rector St.
Kellogg Co., M. W., 90 West St.
Toch Bros., 320 Fifth Ave.
N. Y., Rochester
General Filtration Co., Cutler Bldg.
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co.
R. I., Providence
U. S. Gutta Percha Paint Co.

Cement, Adhesive

N. Y., New York City
General Bakelite Co., 2 Rector St.
National Gum & Mica Co., 59th St. and 11th Ave.

Cement, Alundum

Mass., Worcester
Norton Co.

Cement, Acid Proof, Duro

Pa., Philadelphia
Electro Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.

Cement, Asbestos

Cal., San Francisco
Hoff Asbestos Co., John D.
Ill., Chicago
American Radiator Co., 816 S. Michigan Ave.
N. Y., New York City
Johns, Manville Co., H. W., Madison Ave. and 41st St.
N. Y., Tonawanda
National Roofing Co., 164 Fillmore Ave.
Ohio, Lockland
Carey Mfg. Co., Phillip
Pa., Ambler
Keasbey & Mattison Co.
Pa., Erie
Watson Co., H. F.
Pa., Valley Forge
Ehret Magnesia Mfg. Co.

Cement, Asphalt

N. Y., New York City
Texas Co., 17 Battery Place
Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.

Cement, Bakelite

N. Y., New York City
General Bakelite Co., 2 Rector St.

Cement, Belt

Conn., Bridgeport
Palmer & Co., N.
Conn. Hartford
Jewell Belting Co.
Ill., Chicago
McCauley Belting Co., 212-220 Orleans St.
Mo., St. Louis
Shultz Belting Co.
N. Y., New York City
Laurence Belting Co., 111 Chambers St.
Schieren Co., Chas. A., 30-38 Ferry St.
Ohio, Cincinnati
Bradford Belting Co., 201 Walnut St.
Pa., Philadelphia
Alexander Brothers, 414 N. 3d St.

Cement, Black

Mass., Boston
Flintkote Mfg. Co., 88 Pearl St.

Cement, Bristle Sets

Ill., Chicago
Redmanol Chemical Products Co., 626 W. 22d St.

Cement, Chrome

Ohio, Cleveland
Stowe-Fuller Co., Rockefeller Bldg.
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.

Cement Coatings

N. Y., Long Island City
Horn Co., A. C.
N. Y., New York City
Berry Bros., 262 Pearl St.

Cement, De Khotinsky

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.

Cement, Furnace (*see also Cement, Asbestos*)

N. J., Jersey City
Dixon Crucible Co., Joseph

Cement, Furnace, High Temperature

N. Y., New York City
Quigley Furnace Specialties Co., Inc., 26 Courtlandt St.

Cement, Graphite

United States Graphite Co.
Mich., Saginaw
N. J., Jersey City
Dixon Crucible Co., Joseph

Cement, Iron and Steel

Conn., Shelton
Clark Cast Steel Cement Co.
N. J., Jersey City
Smooth-on Mfg. Co., 570-574 Communipaw Ave.

Cement, Iron Pipe

N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.

Cement, Insulating

N. Y., New York City
Celite Products Co.
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Cement, Keene's American

Ill., Chicago
United States Gypsum Co., 205 W. Monroe St.
Mo., St. Louis
Acme Cement Plaster Co., Frisco Bldg.

Cement, Leather

Mo., St. Louis
Reardon Glue Mfg. Co., 127 Clinton St.
Ohio, Akron
Goodrich Co., B. F.

Cement, Leather Belt Waterproof

Ohio, Cincinnati
Bradford Belting Co., 201 Walnut St.

Cement Lifts, Acid Proof

N. C., Charlotte
Chemical Construction Co.

Cement, Magnesite (*see Cement, Asbestos*)

Cement, Magnesite

Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Cement, Porcelain

N. J., Bloomfield
Condensite Co. of America

Cement, Pipe Joint

Conn., Hartford
Hartford Covering Co., 1234 Main St.

Cement, Pipe Joint—*cont.*

Conn., Shelton
Clark Cast Steel Cement Co.
Ill., Chicago
Crane Co., 839 S. Michigan Ave.

Cement, Plastic

Mo., St. Louis
General Roofing & Mfg. Co.

Cement, Portland

Cal., Los Angeles
California Portland Cement Co., 3d and Spring Sts.
Cal., San Francisco
Cowell Portland Cement Co., 2 Market St.
Pacific Portland Cement Co.
Riverside Portland Cement Co.
Santa Cruz Portland Cement Co.
Colo., Denver
Colorado Portland Cement Co.
Three Forks Portland Cement Co.
Ga., Rockmart
Southern States Portlamd Cement Co.
Ill., Chicago
Chicago Portland Cement Co., 30 N. LaSalle St.
Universal Portland Cement Co., 208 S. LaSalle St.
Iowa, Mason City
Northwestern States Portland Cement Co.
Kans., Independence
Western States Portland Cement Co.
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
Mo., Kansas City
Dewey Portland Cement Co., 400 Scarritt Bldg.
Meramec Portland Cement & Material Co.
Union Sand & Material Co.
Mo., St. Louis
St. Louis Portland Cement Co., International Life Bldg.
Union Sand & Material Co.
Neb., Omaha
Nebraska Portland Cement Co.
N. J., Stewartsville
Edison Portland Cement Co.
N. Y., New York City
Alsen's American Portland Cement Works, 25 Broadway
Atla Portland Cement Co., 30 Broad St.
Ohio, Cleveland
Sandusky Cement Co., Engineer's Bldg.
Ore., Oswego
Oregon Portland Cement Co.
Pa., Allentown
Allentown Portland Cement Co.
Lehigh Portland Cement Co.
Pa., Easton
Alpha Portland Cement Co.
Pa., Philadelphia
Coosa Portland Cement Co., 704 Stock Exchange Bldg.
Giant Portland Cement Co., 603 Penna. Bldg.
Vulcanite Portland Cement Co., 1230 Land Title Bldg.
Tenn., Chattanooga
Dixie Portland Cement Co.
Tenn., Kingsport
Clinchfield Portland Cement Corp.
Utah, Brigham
Ogden Portland Cement Co.
Utah, Ogden
Unon Portland Cement Co.
Wash., Spokane
International Portland Cement Co.

Cement, Refractory

Mass., Worcester
Norton Co.
N. Y., New York City
Johns-Manville Co., H. W., 296 Madison Ave.
N. Y., Rome
Betson Plastic Fire Brick Co.

Cement, Retort (*see Cement, Asbestos*)

Cement, Rubber

Cal., San Francisco
Cook Belting Co., H. N., 401 Howard St.
Mass., Boston
Boston Belting Co., 84 Linden Park Station
N. J., Milltown
Michilin Tire Co.
N. Y., New York City
Goodyear Rubber Co., 787 Broadway
Ohio, Akron
Firestone Tire & Rubber Co.
Goodrich Co., B. F.
Ohio, Ashland
Faultless Rubber Co.

Cement, Rubber, Bulk

N. Y., New York City
Cooper & Co., Charles R., 194 Worth St.
*Scheel, William H., 159 Maiden Lane

Cement, Waterproof

Mo., Kansas City
U. S. Portland Cement Co.

Cement, Waterproof—*cont.*

Mo., St. Louis
Certain-teed Products Co., 314 N. Broadway
Reardon Glue Mfg. Co., 1532 N. Broadway
N. J., Jersey City
Smooth-on Mfg. Co., 570-574 Communipaw Ave.
N. Y., Buffalo
Hercules Waterproof Cement Co., Mutual Life Bldg.
N. Y., Long Island City
Horn, A. G., Co.
N. Y., New York City
Amalgamated Paint Co., 42 Broadway
Dorl, F., & Co., Park Row Bldg.
Miller & Co., C. L.
N. Y., Tonawanda
National Roofing Co., 164 Fillmore Ave.
Ohio, Cleveland
Sandusky Cement Co., Engineers Bldg.
Ohio, Sandusky
Sandusky Portland Cement Co.

Cement, Waterproofing

N. Y., New York City
DuPont Chemical Works, 120 Broadway

Ceramic Colors (*see Colors, Ceramic*)

Ceresine

N. Y., New York City
*Behrend, F., 54 Front St.
*Salomon & Bro., L. A., 216 Pearl St.
*Strahl & Pitsch, 141 Front St.
Pa., Easton
Baker & Adamson Chemical Co.

Cerium (Metal)

Ill., North Chicago
Pfanstiehl Co., Inc.
N. Y., New York City
Norton Laboratories, 296 Madison Ave.
Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.

Cerium Chloride

Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Cerium Nitrate

Ill., Chicago
Lindsay Light Co., 161 E. Grand Ave.
Ill., North Chicago
Pfanstiehl Co., Inc.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Chalk (*see crayon*)

Chalk, Precipitated

N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.
*Dunn & Kruse, 53 Park Row
Industrial Chemical Co., 5th Ave. Bldg.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*Salomon, L. A., & Bro., 216 Pearl St.

Charcoal

Cal., Berkeley
Pacific Guano & Fertilizer Co.
Cal., San Francisco
Noble Electric Steel Co., 995 Market St.
Del., Wilmington
DuPont de Nemours & Co., E. I.
Fla., Gull Point
Pensacola Tar & Turpentine Co.
Fla., Jacksonville
Florida Woods Products Co.
Ga., Savannah
Chatham Mfg. Co.
Ill., Chicago
Charcoal Supply Co.
Laboratory Materials Co., 7404 Calumet Ave.
Ky., Kragon
Kentucky Wood Products Co., Inc.
La., New Orleans
American Turpentine & Tar Co.
Forest Products Co.
Mich., Boyne City
Boyne City Chemical Co.
Mich., Cadillac
Cadillac Chemical Co.
Cummer, Diggins Co.
Mich., Detroit
Charcoal Co. of America
Desmond Charcoal & Chemical Co., 71 Lieb St.
Lake Superior Iron & Chemical Co., Union Trust Bldg.
Mich., East Jordan
East Jordan Chemical Co.
Mich., Wells
Delta Chemical Co.
Mich., West Branch
Mashek Chemical & Iron Co.
Mo., Kansas City
Alabama Charcoal Co.
N. Y., Brooklyn
Wiarda & Co., John C., 259 Green St.
N. Y., Buffalo
Wood Products Co.
N. Y., New York-City
*Fuller & Co., Ralph L., 4 Rector St.
Georgia Pine & Turpentine Co., 160 Perry St.

Charcoal—*cont.*

N. Y., Olean
Keystone Wood Products Co.
Lackawanna Chemical Co.
N. Y., Syracuse
Will & Baumer Co.
Ohio, Cleveland
Cleveland-Cliffs Iron Co., 233 Bank St.
*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Ohio, Ironton
Phipps Charcoal Co.
Pa., Bradford
Coryville Chemical Co.
Maryland Wood Products Co.
Nusbaum Chemical Co.
Pa., Mayburg
Tionesta Valley Chemical Co., Inc.
Pa., Pittston
Wyoming Chemical Co.
Pa., Ridgeway
Penn Chemical Co.

Chemicals, Agricultural

Ga., Savannah
Barker Chemical Co.
Crum & Co., W. R.
Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
La., New Orleans
Standard Guano & Chemical Mfg. Co., Whitney Central Bldg.
Md., Baltimore
*Cottman & Co., J. H., Keyser Bldg.
Ober & Sons Co., G., Fidelity Bldg.
*Struven & Co., Chas. M., 114 S. Frederick St.
*Walter Co., Edw. J., 803 American Bldg.
*White & Co., Thos. H., Reed Bldg.
Mass., Boston
New England Gas & Coke Co., 24 West St.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
*Fuerst Bros. & Co., 2 Stone St.
*Heller, Hirsh & Co., 62 William St.
Marden, Orth & Hastings Co., 61 Broadway
*Nitrate Agencies Co., 102 Pearl St.
Pa., Lancaster
Lancaster Chemical Co.
Pa., Philadelphia
Baugh & Sons Co., 20 S. Delaware Ave.
Va., Richmond
Virginia-Carolina Chemical Co.

Chemicals, Alkaloidal

N. Y., New York City
Merck & Co., 45 Park Place

Chemicals, Analytical

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger, A., & Co., 52-56 W. Kinzie St.
*Laboratories Supply Co.
*Laboratory Materials Co., 7407 Calumet Ave.
Mass., Boston
*Metcalf Co., 535 Boylston St.
Mo., St. Louis
*Heil Chemical Mfg. Co., 216 S. 4th St.
N. J., Phillipsburg
Baker, J. T., Chemical Co.
N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
Eimer & Amend, 205-211 Third Ave.
General Chemical Co., 25 Broad St.
Merck & Co., 45 Park Place
*Squibb, E. R., & Sons, 80 Beekman St.
Ohio, Cleveland
Grasselli Chemical Co.
Ohio, Columbus
*Columbus Laboratory Supply Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
*Thomas, Arthur H., Co.
Pa., Pittsburgh
*Scientific Materials Co., 717 Forbes St.

Chemicals, Aromatic

N. Y., New York City
*Fritzsche Bros., 82-84 Beekman St.
Ungerer & Co., 273 Pearl St.

Chemicals, Bacteriological

Mich., Detroit
Digestive Ferments Co.

Chemicals, Battery

Md., Baltimore
Lee Electric Co., 219 N. Calvert St.
Mass., Boston
Merrimac Chemical Co., 32 Broad St.
N. Y., New York City
*Doggett, Stanley, John and Cliff Sts.
General Chemical Co., 25 Broad St.
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co. 100 William St.
Toch Bros., 320 5th Ave.
*Williams, John T., & Co., Inc., 100 Broadway
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Philadelphia
*Ferguson Bros., 109 Chestnut St.

Chemicals, Boiler Cleaning

Pa., Fernwood
Modoc Co., Inc.

Chemicals, Brewers

England, Wolverhampton
Bailey & Son, William
N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.

Chemicals, Ceramic

N. Y., New York City
Roessler & Hasslacher Chemical Co., 100 William St.

Chemicals, C. P.

Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
Mo., St. Louis
*Heil, Henry, Chemical Co., 216 S. 4th St.
N. J., Phillipsburg
Baker Chemical Co., J. T.
N. Y., New York City
Cooper, Chas. & Co. 194 Worth St.
Eimer & Amend, 205-211 3rd Ave.
General Chemical Co., 25 Broad St.
Kalbfleisch Corp., 31 Union Square
Merck & Co., 45 Park Place
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
*Thomas, Arthur H., Co., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Chemicals, Coal Tar

N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway

Chemicals, Dairy

Mich., Detroit
Digestive Ferments Co.

Chemicals, Dyers

N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
*Jaeck Co., Louis, 257 Front St.
Marden, Orth & Hastings Co., 61 Broadway
N. Y., Wappingers Falls
Standard Aniline Products, Inc.
Pa., Pittsburgh
Pearsite Co., Oliver Bldg.

Chemicals, Engravers

Ill., Chicago
National Steel & Copper Plate Co., 542 S. Dearborn St.

Chemicals, Fireworks

N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway
*Williams, John T., & Son, Inc., 100 Broadway

Chemicals, Furriers

N. Y., New York City
*Farquhar, H. D., 230 W. 17th St.
Gottlieb Chemical Co., 148 W. 24th St.
N. Y. Engravers Supply Co., 230 W. 17th St.

Chemicals, Glassmakers

N. Y., New York City
Battelle & Renwick, 80 Maiden Lane
*Drakenfeld & Co., B. F., 50 Murray St.
*Lamson & Bro., John L., 80 Maiden Lane
Marden, Orth & Hastings Co., 61 Broadway
*Traders Chemical Co., 1 Liberty St.
*Williams, John T., & Sons, Inc., 100 Broadway

Chemicals, Hard

Pa., Pittsburgh
*Snyder's Sons Co., Inc., A. G., 925 S. Canal St., N. S.

Chemicals, Heavy (*see Specific Headings*)

Chemicals, Industrial (*see Specific Headings*)

Chemicals, Laboratory

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Mich., Detroit
*Digestive Ferments Co.
N. J., Phillipsburg
*Baker Chemical Co., J. T.
N. Y., New York City
Bush & Co., W. J., 100 William St.
Eimer & Amend, 205-211 Third Ave.
Farquhar, H. D., 230 W. 17th St.
General Chemical Co., 25 Broad St.
Merck & Co., 45 Park Place
Ohio, Columbus
Laboratory Supply Co., 236 N. 3rd St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Chemicals, Laundry

Md., Baltimore
New Spar Products Co., Columbus Ave. and B. & O. R. R.

Chemicals, Leather

N. J., Jersey City
Onyx Oil & Chemical Co., 190 Warren St.
N. Y., New York City
*Batelle & Renwick, 80 Maiden Lane
*Fuerst Bros. & Co., 2 Stone St.
Marden, Orth & Hastings Co., 61 Broadway

Chemicals, Medicinal (*see Chemicals, Pharmaceutical*)

Chemicals, Metallurgical

Mo., St. Louis
*Heil Chemical & Mfg. Co., 216 S. 4th St.
N. Y., New York City
Eimer & Amend, 205–211 Third Ave.

Chemicals, Mining

Cal., San Francisco
Atkins Kroll & Co., 311 California Ave.
Mo., St. Louis
*Heil Chemical & Mfg. Co., 216 S. 4th St.
N. Y., New York City
*Battelle & Renwick, 80 Maiden Lane

Chemicals, Oil Manufacturers

N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.

Chemicals, Oil Refining

N. Y., New York City
Battelle & Renwick, 80 Maiden Lane

Chemicals, Packers

Mo., St. Louis
*Heil Chemical & Mfg. Co., 216 S. 4th St.
N. Y., New York City
*Battelle & Renwick, 80 Maiden Lane

Chemicals, Paint

Ill., Chicago
Barrett, M. L., & Co., 233 N. Lake St.
Mo., Kansas City
Hood, Abner, Chemical Co., 1409 W. 10th St.
N. Y., New York City
Bauer Co., Phillip, 68 Broad St.
*Fuerst Bros. & Co., 2 Stone St.
Marden, Orth & Hastings Co., 61 Broadway
N. Y., Rosebank
Dreyfus Co., L. A.

Chemicals, Papermakers

N. Y., New York City
*Battelle & Renwick, 80 Maiden Lane
*Fuerst Bros. & Co., 2 Stone St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Co., 61 Broadway
Pa., Easton
Paper Makers Chemical Co.
Pa., Philadelphia
Harrison Works, Grays Ferry Road and 35th St.
Pennsylvania Salt Mfg. Co., Widener Bldg.

Chemicals, Pharmaceutical

Ala., Montgomery
Bear Lewis Drug Co.
England, Wolverhampton
Reade Bros. & Co., Ltd.
Ill., Chicago
Armour & Co.
Ill., Peoria
Allaire, Woodward & Co.
Ind., Indianapolis
Lilly & Co., Eli
Pitman Moore Co.
Md., Baltimore
Hynson, Westcott & Co., Charles and Franklin Sts.
Sharpe & Dohme, 303 W. Pratt St.
Mass., Boston
Eastern Drug Co., 21 Fulton St.
Metcalf Co., Theo., 535 Boylston St.
Patch & Co., E. L., 99 North St.
*Stickney & Poor Spice Co., 184 State St.
Mich., Charlotte
Charlotte Drug Co.
Mich., Detroit
Digestive Ferments Co., 16 Locust St.
Nelson, Baker & Co., 58 Brooklyn Ave.
Parke, Davis & Co.
Ray Chemical Co.
Stearns & Co., Frederick
Mich., Kalamazoo
Upjohn Co.
Minn., St. Paul
Noyes Bros. & Cutler, 376 Sibley St.
Mo., St. Louis
Antikamnia Chemical Co., 1624 Pin St.
Barnes Mfg. Co., 302 Valentine St.
Donzelot & Son, Eugene, 16 S. Main St.
Mallinckrodt Chemical Works.
Merrell Drug Co., I. S., 4th and Market Sts.
Neb., Omaha
Cudahy Packing Co.

Chemicals, Pharmaceutical—*cont.*

N. J., Jersey City
Colgate & Co.
Reed & Carnuick, 42 Germania Ave.
N. J., New Brunswick
Johnson & Johnson
Squibb & Son, E. R.
N. J., Old Bridge
Bloomfield Mills Co.
N. Y., Albany
Albany Chemical Co.
N. Y., Brooklyn
Bristol-Myers Co., 281 Greene Ave.
Hoagland Laboratory, Pacific and Henry Sts.
N. Y., Buffalo
Empire Drug Co., 86 Seneca St.
N. Y., Long Island City
American Druggists Syndicate
N. Y., Lebanon
Tilden Chemical Co.
N. Y., New York City
*Anderson & Co., P. E., 99 John St.
*Battelle & Renwick, 80 Maiden Lane
Bayer Co., Inc , 117 Hudson St.
Cooper & Co., Charles, 194 Worth St.
Croeniger & Co., 99 Wall St.
Dodge & Olcott, 87 Fulton St.
*Downes & Co., 102 Fulton St.
Fairchild Bros. & Foster, 74 Laight St.
*Fritzsche Bros., 84 Beekman St.
*Fuerst Bros. & Co., 2 Stone St.
Heyden Chemical Co., 135 William St.
Hilliers' Sons Co., R., 100 William St.
Hoffman-La Roche Chemical Works, 440 Washington St.
*Hopkins & Co., J. L., 100 William St.
Independent Chemical Co., 72 Front St.
Lederle Laboratories, 39 W. 38th St.
Lehn & Fink, Inc., 120 William St.
*Lueders & Co., Geo., 218 Pearl St.
McKesson & Robbins, Inc., 91 Fulton St.
*Magnus, Maybee & Reynolds, 257 Pearl St.
Marx & Rawolle, 100 William St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 100 William St.
New York Quinine & Chemical Co.
*Peek & Velsor, 8 Gold St.
*Pfizer & Co., Chas., 81 Maiden Lane
*Rockhill & Vietor, 114 John St.
Roessler-Hasslacher Chemical Co., 100 William St.
*Schering & Glatz, 150 Maiden Lane
*Schieffelin & Co., 170 William St.
*Stillwell & Co., A. A., 28 Cliff St.
Thurston & Braidich, 130 William St.
Warner Chemical Co., 52 Vanderbilt Ave.
Weaver & Sterry, Ltd., 179 Pine St.
N. Y., Pearl River
Lederle Antitoxin Laboratory
N. Y., Saratoga Springs
Harvey & Co., G. F.
Ohio, Cincinnati
Lloyd Bros., Plum and Court Sts.
Merrell Chemical Co., Wm. S., 5th and Pike Sts.
Proctor & Gamble
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
*McIllvaine Bros., 15th and Hamilton Sts.
Mulford Co., H. K., 428 S. 13th St.
Powers-Weightman-Rosengarten Co., P. O. Box 1625
Shoemaker & Co., Robert, 201 N. 4th St.
Smith, Kline & French Co., 431 Arch St.
Wampole & Co., H. K., 428 Fairmount Ave.
Wyeth & Bros., John, 11th and Wabash Ave.
Utah, Ogden
Ogden Wholesale Drug Co.
Va., Richmond
Interstate Commerce Co., W. Broad and Meadow Sts.
Wis., Fond du Lac
Huber & Fuhrman Drug Mills

Chemicals, Photographers

Ill., Chicago
Burke & James, Inc., 240 E. Ontario St.
*Sears, Roebuck & Co.
N. Y., Binghamton
Ansco Co.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
General Chemical Co., 25 Broad St.
*Gennert, G., 24 E. 13th St.
Merck & Co., 45 Park Place
Parex Mfg. Co., 249 Pearl St.
N. Y., Rochester
American Photo Chemical Co., Inc.
Bausch & Lomb Optical Co.
Defender Photo Supply Co.
Eastman Kodak Co.
Ohio, Cincinnati
Prince, L. M., Co., 108 W. 4th St.
Pa., Philadelphia
*Phillips & Jacobs, 622 Race St.

Chemicals, Pottery

N. Y., New York City
*Battelle & Renwick, 80 Maiden Lane
*Drakenfeld & Co., B. F., 50 Murray Ave.
Roessler & Hasslacher Chemical Co., 100 William St.

Chemicals, Reduction Ore

N. Y., Binghamton
Chenango Chemical Co.

Chemicals, Refrigeration

N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.

Chemicals, Rubber Manufacturers

Ill., Chicago
Daigger & Co., A., 52-56 W. Kinzie St.
Mass., Boston
Avery Chemical Co., 88 Broad St.
N. Y., New York City
*Battelle & Renwick, 80 Maiden Lane

Chemicals, Steel Manufacturers

N. Y., New York City
*Battelle & Renwick, 80 Maiden Lane

Chemicals, Tanners

Cal., San Francisco
Bloom & Sons, Samuel, Army and Potrero Aves.
Mass., Boston
Atteaux & Co., F. E., 176 Purchase St.
N. Y., New York City
Battelle & Renwick, 80 Maiden Lane
Marden, Orth & Hastings Co., 61 Broadway
*Schell Chemical Co., 56 Pine St.
Wis., Milwaukee
Fiebering Chemical Co., 238 Reed St.

Chemicals, Technical

Cal., Berkeley
*University Apparatus Co.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Daigger & Co., A., 52-56 W. Kinzie St.
Mich., Detroit
Digestive Ferments Co.
Mo., St. Louis
*Heil Chemical & Mfg. Co., 216 S. 4th St.
Midvale Chemical Co., 610 Locust St.
N. J., Phillipsburg
Baker Chemical Co., J. T.
N. Y., New York City
Battelle & Renwick, 80 Maiden Lane
Bush & Co., W. J., 100 William St.
Eimer & Amend, 205-211 Third Ave.
*Farquhar, H. D., 230 W. 17th St.
General Chemical Co., 25 Broad St.
Merck & Co., 45 Park Place
Ohio, Columbus
*Laboratory Supply Co., 236 N. 3rd St.
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Chemicals, Textile

Mass., Boston
*Durfee, Winthrop C., 516 Atlantic Ave.
N. J., Jersey City
Oynx Oil & Chemical Co., 190 Warren St.
N. Y., New York City
*Battell & Renwick, 80 Maiden Lane
*Farquhar, H. D., 230 W. 17th St.
*Fuerst Bros. & Co., 2 Stone St.
Marden, Orth & Hastings Co., 61 Broadway
Metz & Co., Herman A., Inc., 122 Hudson St.
*Schell Chemical Co., 56 Pine St.
N. Y., Wappingers Falls
Standard Aniline Products Co.
Pa., Philadelphia
Philadelphia Textile Chemical Works, Arrott and P. R. R.

Chemicals, Varnish

N. Y., New York City
*Fuerst Bros & Co., 2 Stone St.

Chemicals, Water Purifying

Mo., St. Louis
*Heil, Henry, Chemical Co., 216 S. 4th St.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.
Pa., Pittsburgh
Scaife & Sons, Wm. H., 221 1st Ave.

Chemically Pure Acids (*see Acids, C. P.*)

Chili Saltpetre (*see Sodium Nitrate*)

China, Clay

Cal., Los Angeles
Pacific Mineral Products Co.
England, Manchester
Barclay, Hobson & Co., Ltd., Harpurhey
England, Smithy Bridge near Rochdale
Dearhead Chemical Co.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
N. J., Lincoln
Atlas Mineral Products Co., The

China, Clay—*cont.*

N. Y., New York City
*Dunn & Kruse, 53 Park Row
*Chrystal, Charles B., 11 Cliff St.
*Hammill & Gillespie, 240 Front St.
*Oxford Tripoli Co., 11 Broadway
*Scheel, Wm. H., 159 Maiden Lane
*Tennant Sons & Co., C., 100 William St.
*Whittaker & Co., W. H., 252 Front St.

Chloral Hydrate

Mo., St. Louis
Monsanto Chemical Works, 1800 S. 2d St.
N. Y., New York City
Hoffman-LaRoche Chemical Works, 440 Washington St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
*Schering & Glatz, 150 Maiden Lane
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Chlor Anilin

N. Y., New York City
Chemical Co. of America, 28 Platt St.

Chlorbenzene (*see Chlorbenzol*)

Chlorbenzol

N. Y., Niagara Falls
Niagara Alkali Co.
N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
Hooker Electrochemical Co., 40 Wall St.
Marden, Orth & Hastings Co., Inc., 61 Broadway
Warner Chemical Co., 52 Vanderbilt Ave.
W. Va., Charleston
Rollin Chemical Co., Inc.

Chloride, Calcium-Magnesium

N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.
W. Va., Malden
Dickinson Co., J. Q.

Chloride of Lime (*see also Calcium Hypochlorite and Bleach*)

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Rogers Chemical Co., R. R., 527-535 Commercial St.
Md., Baltimore
*Walter Co., Edw. J., 803 American Bldg.
N. Y., Albany
Wander & Son Chemical Co., S., 135 Church St.
N. Y., New York City
*Doherr, Grimm & Co., 87 Gold St.
Edgertyn Aniline Corp., 118 William St.
Flotation Oil & Chemical Co., 2 Rector St.
*Fuerst Bros. & Co., 2 Stone St.
*Hirsh & Son, L., 368 Greenwich St.
Hooker Electrochemical Co., 40 Wall St.
*Innis, Speiden & Co., 46 Cliff St.
*Leggett & Bro., 301 Pearl St.
Madero Bros. Inc., 115 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.
Va., Saltville
Mathieson Alkali Works

Chlorine

Cal., Pittsburgh
Great Western Electrochemical Co.
N. H., Berlin
Brown Co.
N. Y., New York City
*Bush, Beach & Gent, Inc., 80 Maiden Lane
Electro Bleaching Gas Co., 25 Madison Ave.
General Chemical Co., 25 Broad St.
Goldschmidt Detinning Co., 60 Wall St.
Hooker Electro Chemical Co., 40 Wall St.
*Innis, Speiden & Co., 46 Cliff St.
Roessler & Hasslacher Chemical Co., 100 William St.
Warner Chemical Co.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Niagara Falls
Castner Electrolytic Alkali Co.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
R. I., Providence
Arnold, Hoffman & Co.
W. Va., Charleston
Rollin Chemical Co., Inc.
Va., Saltville
Mathieson Alkali Co., Inc.

Chlorine Derivatives

N. Y., New York City
Roessler & Hasslacher Chemical Co., 100 William St.
Warner Chemical Co., 52 Vanderbilt Ave.

Chloroform

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
England, London
American Commerce Co., Ltd., The, 19 St. Bride St.
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
Mich., Midland
Dow Chemical Co.
N. H., Berlin
Brown Co.
N. J., New Brunswick
Johnson & Johnson
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Eimer & Amend, 205-211 Third Ave.
Merck & Co., 45 Park Place
Squibb & Sons, E. R., 80 Beekman St.
Ohio, Columbus
*Laboratory Supply Co., 236 N. 3d St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Chloroform, Commercial

Mich., Midland
Dow Chemical Co.

Chloroform, U.S.P.

Mich., Midland
Dow Chemical Co.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Chrome Acetate

England, Manchester
Robinson & Co., H. F., Newton Heath
N. J., Passaic
*Wolf, Jacques & Co.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Chrome Alum

England, Liverpool
Haddock Parker & Co., 14 Chapel St.
England, Manchester
Robinson & Co., H. F., Newton Heath
N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
General Chemical Co., 25 Broad St.
Katzenbach & Bullock Co., 100 William St.
Marden, Orth & Hastings Co., 61 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
*Tennant Sons & Co., C., 100 William St.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Chrome Bisulphite

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Chrome Black, P. (Passaic)

N. J., Passaic
American Color Mfg. Co., Gregory Ave. and River Road

Chrome Brick

Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Chrome Cement

Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Chrome Chloride (*see Chromium Chloride*)

Chrome Fast Green Powder

Mass., Boston
Jennings & Co., Inc., 93 Broad St.

Chrome Fluoride (*see Chromium Fluoride*)

Chrome Hydroxide (*see Chromium Hydroxide*)

Chrome Khaki (Passaic)

N. J., Passaic
American Color Mfg. Co., Gregory Ave. and River Road

Chrome Lemon

England, Lancashire, Chorley
Threlfall & Sons, Thomas

Chrome Ore (Chromite)

N. Y., New York City
*Hardy, Charles, 50 Church St.
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.
Foote Mineral Co., 111 N. 19th St.
P ., Pittsburgh
Harbison-Walker Refractories Co.

Chrome Oxide (*see Chromium Oxide*)

Chrome Sulphate (*see Chromium Sulphate*)

Chrome Yellow

Ill., Chicago
*Stresen-Reuter & Hancock Co.
Mich., Detroit
International Color & Chemical Co.
N. J., Newark
Cawley, Clark & Co.
N. J., Passaic
American Color Mfg. Co., Gregory Ave. and River Road.
N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
*Ketchum & Co., 65 Fulton St. (Imp.)
*Osborn Co., C. J., 132 Nassau St.
Pa., Philadelphia
French & Co , Samuel H., 4th and Callowhill Sts.
Howell & Co., C. H., 212 Race St.

Chrome Yellow, C. P.

N. Y., Glen Falls
Imperial Color Works, Inc.

Chromium (*Metal*)

N. Y., New York City
Goldschmidt Thermit Co., 120 Broadway
Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
Harbison-Walker Refractories Co.

Chromium Acetate

Mass., Boston
Avery Chemical Co., 88 Broad St.
N. Y., New York City
Holliday, Read & Sons, (Ltd.), 160 Franklin St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Chromium Chloride

England, Manchester
Robinson & Co., H. F., Newton Heath
N. J., Passaic
*Wolf, Jacques & Co.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

Chromium Fluoride

N, Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Chromium Hydroxide

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Chromium Oxide (*see also Chromium Trioxide*)

Ill., Chicago
*Stresen-Reuter & Hancock, Inc.
Mich., Detroit
International Color & Chemical Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Greene St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Klipstein & Co., A., 644 Greenwich St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Foote Mineral Co., Inc., 111 N. 19th St.
Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.
England, Wolverhampton
Bailey & Sons, William

Chromium Pyrophosphates

England, Manchester
Victors, Ltd., Victoria Bldg.

Chromium Sulphate

England, Manchester
Robinson & Co., H. F., Newtón Heath
Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. J., Passaic
*Wolf, Jacques & Co.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
Squibb, E. R., & Sons, 80 Beekman St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
*Thomas, Arthur H., Co., W. Washington Square

Chromium Trioxide (*see also Chromium Oxide*)

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place
*Squibb, E. R., & Sons, 80 Beekman St.

Chromium Trioxide—*cont.*

Ohio, Columbus
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Chysamine G

Ill., Quincy
Monroe Color & Chemical Co.
N. Y., New York City
*Drug & Dyestuff Corp., 120 Broadway
Pa., Reading
Althouse Chemical Co.

Chrysoidine

N. Y., Monticello
Mont Color & Chemical Co.
N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Chrysoidine, Y & R

R. I., Providence
Industrial Chemical Co., Inc., P. O. Box 1288

Chrysophenine (*Passaic*)

N. J., Passaic
American Color Mfg. Co., Gregory Ave. and River Road

Cicutine (*Coniine*) **Hydrobromide**

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Citral

N. Y., New York City
Bush & Co., W. J., 100 William St.

Citronellol

N. Y., New York City
Florasynth Laboratories, Inc., 23 Pearl St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Clay

Cal., Los Angeles
Pacific Mineral Products Co.
Cal., San Francisco
Clark & Sons, 116 Natoma St.
Ga., Atlanta
Hood Brick Co., B. Mifflin, Candler Bldg.
Ill., Chicago
Chicago Fire Brick Co., 208 S. La Salle St.
Mass. Boston
Eastern Clay Goods Co.
Mo., St. Louis
Laclede-Christy Clay Products Co., 1673 Railway Exch. Bldg.
Walsh Fire Clay Products Co., 4070 N. Main St.
N. J., Perth Amboy
Didier-March Co.
N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
*Hammill & Gillispie, 240 Front St.
*Oxford Tripoli Co., 11 Broadway
*Salomon & Bro., L. A., 216 Pearl St.
*Scheel, Wm. H., 159 Maiden Lane
Ohio, Akron
Robinson Clay Products Co., Fuller Bldg.
Ohio, East Akron
Knight, Maurice A.
Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.
Tenn., Jackson
Jackson Fire Brick Co.

Clay, Block

Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.

Clay, Crucible

N. J., Jersey City
Dixon Crucible Co., Joseph
Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.

Clay, Pot

Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.
Tenn., Jackson
Jackson Fire Brick Co.

Clay, Retort (Milled)

Tenn., Jackson
Jackson Fire Brick Co.

Clay, Technical

N. Y., New York City
Goeble & Co., J., 129 Maiden Lane

Cloth Scarlet G.

N. Y., Cook's Falls
Beaverkill Color & Chemical Co., The

Coal Tar Products (*see Crudes, Intermediates, Dyestuffs*)

Coal Tar Derivatives (*see Specific Headings*)

Coatings, Acid Proof (*see also Paints*)

Pa., Philadelphia
Flexible Compound Co., 3607 Haverford Ave.

Coatings, Acid Proof, Black and Clear

Ohio, Cleveland
Glidden Varnish Co., 11001 Madison Ave.

Cobalt (*Metal*)

N. Y., New York City
Goldschmidt Thermit Co., 120 Broadway
*Sloan & Russell, Inc., 132 Nassau St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., Electric Bldg.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
Vitro Mfg. Co., Bessemer Bldg.
Pa., Primos
Primos Chemical Co.
W. Va., Huntington
Standard Ultramarine Co.

Cobalt Linoleate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Cobalt Oleate

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Cobalt Oxide

England, Wolverhampton
Bailey & Son, William
N. Y., Brooklyn
Wiarda & Co., John C.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Harshaw, Fuller & Goodwin Co., 100 William St.
Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Cobalt Resinate

N. J., Harrison
National Oil Products Col, Essex and First Sts.

Cobalt Resinate, Fused

Pa., Philadelphia
*Meyer & Sons, J., 480 Bourse Bldg.

Cobalt Salts (*see also Specific Headings*

England, Essex, Loughton
Madderton & Co., Ltd.
N. Y., New York City
*Harshaw, Fuller & Goodwin Co., 100 William St.
Merck & Co., 45 Park Place
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Cocaine

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Roessler & Hasslacher Chemical Co., 100 William St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Cochineal

N. Y., New York City
Berlin Aniline Works, 213 Water St.
Holliday, Read & Co. (Ltd.), 160 Franklin St.
*Klipstein & Co., A., 644 Greenwich St.
*Ransom Co., L. E., 279 Pearl St.

Codeine

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Colchicine

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Collodion

N. J., Carlstadt
Franco-American Chemical Co.
N. Y., New York City
Cooper & Co., Chas., 194 Worth St.
Du Pont Chemical Works, 120 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
*Schieffelein & Co., W. H., 170 William St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Collodion, U.S.P.

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.

Collodion, Negative

N. Y., New York City
Eissing Chemical Co., 225 Fifth Ave.

Collodion Removers

N. Y., Albany
Albany Chemical Co.

Colocynthin

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Colors (*see also Dyestuffs*)

Colors, Acid (*see also Dyestuffs*)

England, Lancashire, Edenfield
Sharp, Ltd., J. B., & W. R.
N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
*Sloan & Russell, Inc., 132 Nassau St.

Colors, Agricultural

Ill., Chicago
Alston-Lucas Paint Co., Wade and Currier Sts.
Mich., Detroit
Detroit White Lead Works, 560 Milwaukee Ave.
N. Y., Brooklyn
Masury, J. W., & Son, 50 Jay St.
N. Y., New York City
Ansbacher, A. B., & Co., 527 5th Ave.
Devoe, F. W. & C. T. Reynolds Co., Fulton and William Sts.
N. Y., New York City
Kohnstamm & Co., H., 87 Park Place
Pa., Philadelphia
Lucas & Co., John, 322 Race St.

Colors, Alizarine (*see Alizarine*)

Colors, Aniline (*see Aniline*)

Colors, Bakers (*see Colors, Food, Confectioners*)

Ill., Chicago
Heller & Co., B., 3925 Calumet Ave.
Pa., Reading
Raser, Wm. H., & Son

Colors, Basic (*see also Dyestuffs*)

England, Lancashire, Edenfield
Sharp, Ltd., J. B. & W. R.
N. Y., New York City
*Geisenheimer & Co., 134 Cedar St.
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
*Sloan & Russell, Inc., 132 Nassau St.

Colors, Beer

N. Y., New York City
New York Malt Roasting Co., 175 South St.
Pa., Philadelphia
Keller, Robert, 334 N. 3d St.

Colors, Bottlers

Ill., Sterling
Massey & Massey Co.
N. Y., New York City
Chaskel Chemical Works, 265 W. Broadway
*Delisser & Co., 457 W. 26th St.
Kohnstamm & Co., H., 87 Park Place
Wood & Selick, 36 Hudson St.
Pa., Philadelphia
Ottens, Henry H., Mfg. Co., 129 S. Front St.

Colors, Brick

Mich., Detroit
Acme White Lead & Color Works, St. Aubin Ave. & M. C. R. R.
Detroit White Lead Works, 560 Milwaukee Ave.

Colors, Butter

Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie Ave.
Mass., South Boston
Northern Industrial Chemical Co., 11 Elkins St.
N. Y., Elmira
Thatcher Mfg. Co.
N. Y., Little Falls
Burrell & Co., D. H.
Chr. Hansen's Laboratory, Inc.
N. Y., New York City
*Gowing & Co., Inc., D. H., 47 W. 34th St.
Heller & Merz Co., 505 Hudson Ave.
Vt., Burlington
Wells & Richardson Co.

Colors, Canned Goods (*see also Colors, Food*)

Ill., Chicago
Barrett & Co., M. L., 233 W. Lake Ave.
N. Y., New York City
*Maas, Waldenstein Extract Co., 100 William St.

Colors, Carmine

N. Y., New York City
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Co., 61 Broadway
N. Y., Rosebank, S. I.
Siegle Co., G.

Colors, Carmoisine

N. Y., New York City
Kalle Color & Chemical Co., 530 Canal St.

Colors, Carnotone

N. Y., New York City
Holliday, Read & Sons, 160 Franklin St.
Kalle Color & Chemical Co., 540 Canal St.

Colors, Cement

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Colors, Ceramic

N. Y., New York City
Roessler & Hasslacher Chemical Co., 100 William St.
N. Y., Rosebank, S. I.
Siegle Co., G.

Colors, Certified and Technical

Ill., Chicago
*Sethness Co., 718 N. Curtis St.
N. Y., New York City
*Dodge & Olcott Co., 87 Fulton St.
Evergreen Chemical Co., 171 Broadway
*Fritzsche Bros., 82 Beekman St.
Kohnstamm & Co., H., 87 Park Place
*Lueders, Geo., & Co., 218 Pearl St.
*Magnus, Maybee & Reynard, 257 Pearl St.

Colors, Cheese

Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie Ave.
N. Y., Elmira
Thatcher Mfg. Co.
N. Y., Little Falls
Burrell & Co., D. H.
Hansen's Laboratory, Chr., P. O. Box 3099
N. Y., New York City
*Gowing & Co., Inc., D. H., 47 W. 34th St.
Wis., Madison
Marschall Dairy Laboratory, 14 Proudfit St.

Colors, Chrome (*see Dyestuffs*)

Colors, Chrome, for Printing

N. J., Passaic
*Wolf, Jacques & Co.,
N. Y., New York City
*Sloan & Russell, Inc., 132 Nassau St.
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.

Colors, Cider

Ill., Chicago
Barrett & Co., M. L.
Pa., Philadelphia
Twitchell, S., Co., 225 Vine St.

Colors, Cigar

N. Y., New York City
Chaskel Chemical Works, 265 W. Broadway

Colors, Coach

N. J., Newark
Murphy Varnish Co., Chestnut and McWhorter Sts.

Colors, Coal Tar (*see Dyestuffs*)

Colors, Confectioners

Ill., Chicago
Chapman & Smith Co., Washington Blvd. and S. Carpenter St.
Heller, B., & Co., 3925 Calumet Ave.
N. Y., New York City
Kohnstamm & Co., H., 83–89 Park Place
Wood & Selick, 36 Hudson St.
N. Y., Rosebank, S. I.
Siegle Co., G.
Ohio, Dayton
Ritzler, Charles E., Co.
Pa., Hanover
Acme Extract & Chemical Works
Pa., Philadelphia
Ottens, Henry H., Mfg. Co., Inc., 129 S. Front St.

Colors, Diamine

N. Y., New York City
Cassella Color Co., 182 Front St.
Marden, Orth & Hastings Co., 61 Broadway

Colors, Direct (*see Dyestuffs*)

Colors, Dry

Ill., Chicago
Daigger & Co., A., 52–56 W. Kinzie St.
Mass., Boston
Cabot, G. L.
N. J., Lincoln
Atlas Mineral Products Co., The
N. J., Newark
Cawley, Clark & Co.
N. Y., Glen Falls
Imperial Colors Works, Inc.
N. Y., New York City
Baker & Bro., H. J., 100 William St.
*Binney & Smith, 81 Fulton St.
*Campbell, C. W., 11 Cliff St.
Cresent Color & Chemical Works, Inc.
Hellenic Chemical & Color Co., Inc.

Colors, Dry—*cont.*

N. Y., New York City—cont.
Heller & Merz Co., 505 Hudson St.
Kohnstamm & Co., H., 87 Park Place
*Lavanburg, Fred, 100 William St.
Marden, Orth & Hastings Co., 61 Broadway
National Gum & Mica Co., 59th St. and 11th Ave.
*Osborn Co., C. J., 132 Nassau St.
Sinclair & Valentine Co., 611 W. 129th St.
*Waldo, E. M. & F., 11 Broadway
Ohio, Cincinnati
Ault & Wiborg Co.
Ohio, Cleveland
Fleming Chemical Co., The, 1711 Crawford Road
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road.

Colors, Dye (*see Dyestuffs, Dyewoods, Extracts*)

Colors, Earth

Ill., Chicago
*Stresen-Reuter & Hancock, Inc.
N. Y., New York City
Heller & Merz Co., 505 Hudson St.
*Smith & Co., J. Lee, 23 Jacob St.
*Waldo, E. M. & F., 11 Broadway

Colors, Enamel

N. Y., Brooklyn
Masury, J. W., & Son, 50 Jay St.
Pa., Pittsburgh
Vitro Mfg. Co., Bessemer Bldg.

Colors, Filling

N. Y., Long Island City
Smith & Co., Edw.

Colors, Flat

N. Y., Long Island City
Smith & Co., Edw.

Colors, Food

Ill., Chicago
Barrett & Co., M. L., 233 W. Lake Ave.
Beekler Co., Jno. G., 722 Curtis St.
Heller & Co., B., Calumet and 40th St.
Hutchinson & Son, W. H., 196 Desplaines St.
Kelso & Co., 559 W. Quincy St.
Long, Ed., Chemical Co., The, 1276 Clybourn Ave.
*Sterne Sons & Co., Postal Telegraph Bldg.
Ill., Quincy
Monroe Drug Co.
Md., Baltimore
Shaw, Chas. W., Co., 119 Cheapside
*Lewis Importing & Mfg. Co., 1122 W. Saratoga St.
*Sonneborn Sons, L., 513 W. Lombard St.
Mass., Boston
Murray Co., 224 State St.
Mich., Detroit
Digestive Ferments Co.
Mo., St. Louis
Applegren Mfg. Co., F., 7th and Howard Sts.
Cranfill Mfg. Co., J. H., 1623 N. 7th St.
N. J., West Hoboken
Palisade Mfg. Co.
N. Y., Brooklyn
Preservaline Mfg. Co., 854 Lorimer Ave.
N. Y., Little Falls
Hansen's Laboratory, Chr., P. O. Box 3099
N. Y., New York City
*Bush, W. J., & Co., 100 William St.
Chaskel Chemical Co., 265 W. Broadway
Gowing & Co., Inc., D. H., 47 W. 34th St.
Kohnstamm, H., & Co., 87 Park Place
*Lathrop & Co., Inc., H. R., 200 Water St.
*Maas & Waldstein Co., 100 William St.
Williams Mfg. Co., 1947 1st Ave.
N. Y., Potsdam
Thatcher, H. D., & Co.
N. Y., Rosebank, L. I.
Siegle Co., G.
Ohio, Cincinnati
Alexander Co., M. H., 226 E. Front St.
Cincinnati Extract Works Co., 226 E. Pearl St.
Pa., Philadelphia
Twitchell Co., S., 225 Vine St.

Colors, Fruit

Mass., Boston
American Soda Fountain Co.
N. Y., New York City
*Matthews, John, 333 E. 26th St.
Mergantine & Lamm, 158 Chambers St.

Colors, Glass

N. Y., New York City
*Drakenfeld, B. F., & Co., 50 Murray St.

Colors, Japan

Ill., Chicago
Adams & Elting Co., 712 Washington Blvd.
Chicago Varnish Co., 2100 Elston Ave.

Colors, Japan—*cont.*

Mich., Detroit
Acme White Lead & Color Works, St. Aubin Ave. and M. C. R. R.
Boydell Bros. White Lead & Color Co., 18 Congress St.
Detroit White Lead Works, 560 Milwaukee Ave.
N. Y., Brooklyn
Masury, J. W., & Son, 50 Jay St.
Moore & Co., Benj., 231 Front St.
N. Y., New York City
*Kuttruff, Pickhardt & Co., Inc., 128 Duane St.
*Longman & Martinez, 207 Pearl St.
Valentine & Co., 456 4th Ave.
Ohio, Dayton
Lowe Bros. Co.
Pa., Philadelphia
French & Co., Samuel H., 4th and Callowhill Sts.
Graves Co., N. Z., 22 S. 3d St.
Lucas & Co., John, 322 Race St.

Colors, Lake

N. Y., Glen Falls
Imperial Colors Works, Inc.
N. Y., New York City
Hellenic Chemical & Colors Co., Inc., 427 W. 13th St.
Heller & Merz, 503 Hudson St.
Marden, Orth & Hastings Co., Inc., 61 Broadway
National Gum & Mica Co., 59th St. and 11th Ave.

Colors, Leather (*see also Colors, Pigment*)

N. Y. New York City
Cassella Color Co., 182 Front St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Co., 61 Broadway
Stamford Mfg. Co., 82 Wall St.

Colors, Linoleum

N. Y., New York City
Kohnstamm & Co., H., 87 Park Place
Martin Co., L., 81 Fulton St.

Colors, Lithophine

N. Y., New York City
*Gabriel & Schall, 205 Pearl St.

Color, Malachite Green

N. Y., New York City
Cosmic Aniline Works, Inc., 8 West Broadway

Colors, Marble

N. Y., New York City
Devoe, F. W., & C. T. Reynolds Co., Fulton and William Sts.
Kohnstamm & Co., H., 87 Park Place
Pa., Philadelphia
Lucas & Co., John, 322 Race St.

Colors, Metallic

N. Y., New York City
Riebe & Co., Edgar C., 276 Water St.
Wash., Tacoma
Mashell Paint Co.

Colors, Milk

Ill., Chicago
Heller Chemical Co., 900 Fulton St.

Colors, Mineral

N. Y., New York City
*Hemingway & Co., Ltd., 1 Broadway
*Smith & Co., J. Lee, 23 Jacob St.
Marden, Orth & Hastings Co., 61 Broadway
Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Colors, Ochre

Ga., Cartersville
Cherokee Ochre Co.
Pa., White Haven
Luzerne Ochre Mfg. Co.

Colors, Oil

Cal., San Francisco
Fuller & Co., W. P.
Mich., Detroit
Acme White Lead & Color Works, St. Aubin Ave. and M. C. R. R.
Detroit White Lead Works, 560 Milwaukee Ave.
N. J., Newark
Murphy Varnish Co.
N. Y., Brooklyn
Masury & Sons, J. W., 50 Jay St.
N. Y., New York City
Amerian Aniline Products, Inc., 80 Fifth Ave.
Apex Color Works, 50 W. Broadway
Devoe, F. W. & C. T. Reynolds Co., Fulton and William Sts.
Ohio, Cleveland
Sherwin-Williams Co., 601 Canal Road. N. W.
Ohio, Dayton
Lowe Bros. Co.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road
Lucas & Co., John, 322 Race St.

Colors, Oil Cloth

N. Y., New York City
Martin Co., L., 81 Fulton St.

Colors, Oil

England, Lancashire, Edenfield
Sharp, Ltd., J. B. & W. R.
N. Y., New York City
Heller & Merz Co., 505 Hudson St.

Colors, Paint (*see also Colors, Venetion Red*)

Mich., Detroit
Acme White Lead & Color Works, St. Aubin Ave. and M. C. R. R.
Detroit White Lead Works, 560 Milwaukee Ave.
Masury, J. W., & Son, 50 Jay St.
N. Y., New York City
Heller & Merz Co., 505 Hudson St.
Kohnstamm, H., & Co., 87 Park Pl.
Marden, Orth & Hastings Co., 61 Broadway
*Smith & Co., J. Lee, 23 Jacob St.
Ohio, Cleveland
Sherwin-Williams Co.

Colors, Papermakers

N. Y., New York City
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Co., 61 Broadway
*Smith & Co., J. Lee, 23 Jacob St.
Pa., Philadelphia
French & Co., Samuel H., 4th and Callowhill Sts.
Lucas & Co., Jno., 322 Race St.

Colors, Perfume

N. Y., New York City
Lieber & Co., Inc., H., 14 Platt St.

Colors, Pigment, for the Leather Trade

England, Stockport
Cornbrook Chemical Co., Ltd.
N. Y., New York City
*Kohnstamm & Co., H., 87 Park Place
Marden, Orth & Hastings Co., 61 Broadway

Colors, Porcelain

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Colors, Pulp

Md., Baltimore
Bloede Co., Victor G., Caton Ave,. Station "D"
N. Y., New York City
National Gum & Mica Co., 59th St. and 11th Ave.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road

Colors, Rubbermakers

N. Y., New York City
*Kohnstamm & Co., H., 87 Park Place
Marden, Orth & Hastings Co., 61 Broadway
Martin Co., L., 81 Fulton St.
*Smith & Co., J. Lee, 23 Jacob St.
Pa., Philadelphia
Westmoreland Chemical & Color Co., 925 Chestnut St.

Colors, Soap

N. Y., New York City
Lieber & Co., Inc., H., 14 Platt St.

Colors, Steel

N. J., Lincoln
Atlas Products Co.
N. Y., New York City
*Doggett, Stanley, John and Cliff, Sts.
National Paint Works, 100 William St.

Colors, Sugar, Burnt

Ohio, Cleveland
Forest City Paint & Varnish Co., 3334 Lakeside Ave.
Ill., Chicago
Barrett & Co., M. L., 233 W. Lake Ave.
N. Y., New York City
McKesson & Robbins, Inc.
*Williamson & Co., D. D., 86 Fulton St.
Ohio, Cincinnati
Alexander Molasses Co., 3271 Spring Grove Ave.

Colors, Sugar "2 stars"

N. Y., New York City
Bush & Co., W. J., 100 William St.

Colors, Sulphur

N. Y., New York City
Berlin Aniline Works, 213 Water St.
*Century Colors Corp., 182 Front St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Co., 61 Broadway
*Sloan & Russell, Inc., 132 Nassau St.
N. Y., Wappingers Falls
Standard Aniline Products Co., Inc.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Square

Colors, Sulphur, Levuline for

N. J., Passaic
*Wolf, Jacques, & Co.

Colors, Surface Coating

N. Y., Glen Falls
Imperial Colors Works, Inc.

Colors, Thion

N. Y., New York City
Kalle Color & Chemical Co., 830 Canal St.

Colors, Tin

N. Y., Brooklyn
Masury, J. W., & Son, 50 Jay St.

Colors, Ultramarine

N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway
W. Va., Huntington
Standard Ultramarine Co.

Colors, Varnish

Ill., Chicago
Chicago Varnish Co., 2100 Elston Ave.
N. Y., Long Island City
Smith & Co., Edw.
N. Y., New York City
Berry Bros., 262 Pearl St.

Colors, Vegetable

N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway

Colors, Venetian Red

N. Y., New York City
*Smith Co., J. Lee, 19 Jacob St.
Pa., Reading
Wilhelm Co., The, A.

Colors, Vinegar

Ill., Chicago
Barrett & Co., M. L.

Colors, Wall Paper Pulp

N. Y., Glen Falls
Imperial Color Works, Inc.

Colors, Water

N. Y., New York City
Chaskel Chemical Works, 265 W. Broadway
Pa., Philadelphia
Twitchell, S., Co., 225 Vine St.
Ill., Chicago
Chicago Copy Co., 746 Milwaukee Ave.
Mich., Detroit
Savigny Co., 4 Adams Ave. W.
N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway
The Prank Co., 358 5th Ave.
Ohio, Sandusky
Kroma Color Co.
Pa., Philadelphia
Witte, G. W., 1727 Ludlow Ave.
Pa., Reading
Wilhelm Co., The, A.

Condensite-Celluron

Pa., Bridgeport
Diamond State Fibre Co.

Copper (*Bar*)

Colo., Colorado Springs
United Stated Reduction & Refining Co.
Conn., Bridgeport
Bridgeport Brass Co.
Conn., Waterbury
American Brass Co., The
Mich., Detroit
Detroit Copper & Brass Rolling Mills, 99 Clark Ave.
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Hungerford Brass & Copper Co., U. T., 80 Lafayette St.
Wash., Tacoma
Tacoma Smelting Co.

Copper (*Electrolytic*)

Mont., Anaconda
Anaconda Copper Mining Co.
N. J., Perth Amboy
Raritan Copper Works
N. Y., New York City
U. S. Metals Refining Co.
U. S. Smelting Co., Inc., 120 Broadway

Copper Acetate

N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
Roessler & Hasslacher Chemical Co., 100 William St.
White Tar Co., 6 Cliff St.
R. I., Providence
*Lewis, John D.

Copper Amalgam

Del., Milford
Caulk Co., The L. D.

Copper Carbonate

Ill., Chicago
Laboratory Materials Co., 7404 Calumet Ave.
Mass., Boston
Merrimac Chemical Co., 33 Broad St.
N. J., Matawan
Munning Loeb Co.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., Brooklyn
Wiarda & Co., John Co., 273 Green St.
N. Y., New York City
Cooper, Chas. & Co., 194 Worth St.
General Chemical Co., 25 Broad St.
McKesson & Robbins, Inc., 91 Fulton St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Copper Chloride

England, Wolverhampton
Bailey & Son, William

Copper Compound

N. Y., New York City
*Rhodes & Co., Jas. H., 162 William St.

Copper Cyanide

N. Y., New York City
Cooper Chas., & Co., 194 Worth St.

Copper Nitrate

N. Y., Brooklyn
Seldner & Enequist, Hausman St.
N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
General Chemical Co., 25 Broad St.
*Klipstein & Co., A., 644 Greenwich St.

Copper Oxide

England, Wolverhampton
Bailey & Son, William
Ill., Chicago
Ele-Kern Co., 1512 Clybourn Ave.
N. Y., Brooklyn
Wiarda, H. John C., & Co., 273 Green St.
N. Y., New York City
*Pfaltz & Bauer, Inc., 300 Pearl St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Copper Salts (*see Specific Headings*)

Copper Suboxide

England, London, E. C. 3
Berk & Co., Ltd., F. W., 1 Fenchurch Ave.
England, Wolverhampton
Bailey & Sons, William

Copper Sulphate

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
England, Liverpool
Haddock, Parker & Co., 14 Chapel St.
Ill., Chicago
Daigger & Co., A., 52–56 W. Kinzie St.
Md., Baltimore
Clendenin Bros.
Thomsen Chemical Co., Race and Winder Sts.
*Walter Co., Edw. J., 803 American Bldg.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
N. J., Matawan
Munning Loeb Co.
N. J., Trenton
Katzenbach & Bullock Co.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
American Smelting & Refining Co., 120 Broadway
*Chemical Importing & Mfg. Co., 90 West St.
Edgertyn Aniline Corp., 118 William St.
Eimer & Amend, 205–211 Third Ave.
Freeman & Co., R. B., 96 Wall St.
General Chemical Co., 25 Broad St.
*Hardy, Charles, 50 Church St.
Klipstein & Co., A., 644 Greenwich St.
*Leggett & Bro., 301 Pearl St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
Nichols Copper Co., 25 Broad St.
*Nitrate Agencies Cl., 102 Pearl St.
*Peters, White & Co., 55 John St.
*Philipp Bros., Inc., 29 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
*Van Brunt & Co., Inc., J. A., 114 John St.
White Tar Co., 6 Cliff St.
*Williams & Co., 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
Pa., Philadelphia
*Ferguson Bros.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
R. I., Providence
*Lewis, John D.

Copper Sulphate, Extra, Tech.

N. Y., New York City
Cooper & Co., Chas., 194 Worth St.

Copper, Sulphocyanate

England, London, E. C. 3
Berk & Co., Ltn., F. W., 1 Fenchurch Ave.

Copperas (*see Ferrous Sulphate*)

Copra

N. J., Edgewater
Sencer Kellogg & Sons, Inc.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Sloan & Russell, Inc., 132 Nassau St.

Cordials, Medicinal

Mich., Kalamazoo
Upjohn Co.

Corn Starch

Md., Baltimore
Bloede Co., Victor G., Caton Ave., Station "D"
N. Y., New York City
Corn Products Refining Co., 17 Battery Place
*Morningstar, C., & Co., 233 Broadway
Hirsh, Hall & Co., 66 Broadway
*Whittaker, W. H., & Co., 250 Front St.

Corrosive Sublimate (*see Mercuric Chloride*)

Corundum

Mass., Cambridge
Ashland Emery & Corundum Co.
Speare's Alden Sons Co.

Corumdum, Artificial

Mass., Cambridge
Exlon Co., The, 156 Sixth St.

Cotton, Absorbent

N. Y., New York City
*Bauer & Black, 104 E. 25th St.

Cotton, Medicated

N. Y., New York City
*Bauer & Black, 104 E. 25th St.

Cotton, Soluble

N. J., Wallington
Anderson Chemical Co.
N. Y., New York City
Celluloid Zapon Co., 200 Fifth Ave.
Cooper, Chas., & Co., 194 Worth St.
DuPont Chemical Co., 120 Broadway
*Mass & Walstein, 92 William St.

Cotton Solutions

Ill., Chicago
Van Schaack Bros. Chemical Works
N. J., Carlstadt
Franco-American Chemical Co.

Coumarin

Mo., St. Louis
Monsanto Chemical Works, 1800 S. 2d St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.

Crayons, Chalk

N. Y., New York City
Binney & Smith Co., 81 Fulton St.
Ohio, Sandusky
American Crayon Co.

Crayons, Checking

N. J., Newark
Faber, A. W., 41 Dickerson St.

Crayons, Colored

N. J., Jersey City
Dixon Crucible Co., Joseph
N. J., Newark
Faber, A. W., 41 Dickerson St.
N. Y., Brooklyn
Faber, Eberhard, 137 Greenpoint Ave.
N. Y., New York City
American Lead Pencil Co., 220 5th Ave.
Binney & Smith Co., 81 Fulton St.
Eagle Pencil Co., 377 Broadway

Crayons, School

N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Binney & Smith Co., 81 Fulton St.
Ohio, Sandusky
American Crayon Co.

Crayons, Soapstone

N. Y., New York City
Talc Products Co., 11 Pine St.

Cream of Tartar (*see Tartar, Cream of*)

Cresoli, Liquor

England, Darlington
Parkin, Ness & Co., Quebec St.

Creosote

Fla., Jacksonville
Florida Wool Products Co.
Ga., Savannah
Antwerp Naval Stores Co.
National Rosin Oil & Size Co.
Ill., Chicago
Lewis Mfg. Co., F. J.
La., New Orleans
American Turpentine & Tar Co.
Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
N. J., Elizabeth
Bayway Chemical Co.
N. Y., New York City
DuPont Chemical Works, 120 Broadway
*Fougera & Co., E., 80 Beekman St.
Georgia Pine Turpentine Co.
Pa., Mayburg
Tionesta Valley Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Creosote, Carbonate, U.S.P.

Fla., Jacksonville
Florida Wood Products Co.

Creosote, Coal Tar

Ga., Savannah
Antwerp Naval Stores Co.
National Rosin Oil & Size Co.
Standard Naval Stores Co.
Ill., Chicago
Lewis, F. J., Mfg. Co.

Creosote, Dark

N. Y., New York City
DuPont Chemical Works, 120 Broadway

Creosote, Refined

Creosotes, Soluble

England, Darlington
Parkin, Ness & Co., Quebec St.
N. Y., New York City
DuPont Chemical Works, 120 Broadway

Creosote Oil (*see Oils, Creosote*)

Cresol (*see Acid, Cresylic*)

Cresols (*special bacteriological*)

Pa., Philadelphia
Mulford Co., H. K.

Cresol, Meta

N. J., Elizabeth
Bayway Chemical Co.
N. Y., New York City
Barrett Co., 17 Battery Place

Cresol, Ortho

N. Y., New York City
Barrett Co., 17 Battery Place
National Gum & Mica Co., 59th St. and 11th Ave.

Cresol, Para

N. J., Elizabeth
Bayway Chemical Co.
N. Y., New York City
Barrett Co., 17 Battery Place

Crudes, Coal Tar Derivatives

Ala., Birmingham
Tennessee Coal, Iron & R. R. Co.
Conn., New Haven
New Haven Gas Light Co., 80 Crown St.
Del., Wilmington
DuPont de Nemours & Co., E. I.
Ill., Chicago
American Tar Products Co., 208 S. LaSalle St.
Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
Mass., Holbrook
Baird & McGuire, Inc.
Mich., Midland
Dow Chemical Co., The
Mo., St. Louis
Monsanto Chemical Co., 1800 S. 2d St.
Neb., Omaha
Nebraske Blaugas Co., 28th and Boyd Sts.
N. J., Elizabeth
Bayway Chemical Co., Bayway
N. J., Orange
Edison, Inc., Thomas A.
N. Y., Kingston
Nitrated Chemical Co.
N. Y., New York City
Barrett Co., The, 17 Battery Place
Merck & Co., 45 Park Place
Semet-Solvey Co. of New York, 42d St. Bldg.
Ohio, Amherst
Briggs Chemical Works
Ohio, Cincinnati
Chatfield Mfg. Co.
Ohio, Toledo
Atlas Chemical Co. (Capital $1,000,000)
Pa., Johnstown
Union Chemical & Refining Co., Box 974
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
United Gas Improvement Co.
Pa., Pittsburgh
Pittsburgh By-Products Coke Co.
Wash., Spokane
Betts Co., C. G., Erie and B. P. Tracks
Wis., Milwaukee
Newport Hydro-Carbon Co., 1112 First National Bank Bldg.

Cryolite
Ill., Chicago
National Alum Co.
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.
Cooper & Co., Chas., 194 Worth St.
*Sundheimer, Henry, 35 Nassau St.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., 115 Chestnut St.

Crystolon
Ill., Chicago
Rhodes & Co., James H., 157 W. Austin Ave.

Crystals, Snow Flake
Pa., Pittsburgh
*Mortlandt Chemical Co., 602 Fitzsimons Bldg.

Culture, Bulgarian Milk
N. Y., Little Falls
Hansen's Laboratory, Inc., Chr.

Culture, Lactic Ferment
N. Y., Little Falls
Hansen's Laboratory, Inc., Chr.

Culture Media
Mich., Detroit
Digestive Ferments Co.

Cumaron
N. Y., New York City
Barrett Co., 17 Battery Place
DuPont Chemical Works, 120 Broadway

Cupro Magnesium Metal
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Cupro-mangano-vanadium
Pa., Pittsburgh
American Vanadium Co., Vanadium Bldg.

Cupro-vanadium (*see Vanadium*)
Pa., Pittsburgh
American Vanadium Co., Vanadium Bldg.
Pa., Primos
Primos Chemical Co.

Curdalac
N. Y., New York City
*Gowing & Co., Inc., D. H., 47 W. 34th St.

Cutch (*see Extracts, Cutch*)

Cutch, Sulphur
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Cyanamide
N. Y., New York City
American Cyanamide Co., 511 5th Ave.

Cyanide (*see also Potassium Cyanide and Sodium Cyanide*)
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Atkins, Kroll & Co., 311 California St.
Selby Smelting & Lead Co.
Ill., Chicago
*Rhodes & Co., Jas. H., 157 W. Austin Ave.
N. Y., New York City
American Cyanamid Co., 511 Fifth Ave.
*Philipp Bros., Inc., 29 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
*Tennant Sons & Co., C., 100 William St. (Plant: St. Albans, Va.)
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Cyanide, Chloride
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Ohio, Cleveland
Grasselli Chemical Co.

Cyanide of Potash (*see Potassium Cyanide*)

Decolorizing Materials
N. Y., New York City
*Binney & Smith Co., 81 Fulton St.
*Salomon & Bro., L. A., 216 Pearl St.

Degras
N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
Fuller & Co., Ralph L., 4 Rector St.
Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway

Deodorizing Materials (*see Bleach, Bleaching Powder and Chloride of Lime*)
N. Y., New York City
*Binney & Smith Co., 81 Fulton St.

Dertergine

Mass., Atlantic
*Bosson & Lane

Dextrine

Conn., New Haven
Hubinger Bros. Co., J. C.
Ill., Chicago
Stein, Hirsch & Co., Westminster Bldg.
Iowa, Cedar Rapids
Douglas Co.
Md., Baltimore
Bloede, Victor G., Co., Caton Ave., Station "D"
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
Cooper & Co., Chas., 194 Worth St.
Corn Products Refining Co., 17 Battery Place
Declyne, E., 129 Carlton St.
Edgertyn Aniline Corp., 118 William St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
*Morningstar & Co., Chas., 233 Broadway
National Gum & Mica Co., 59th St. and 11th Ave.
*Salomon, L. A., & Bro., 216 Pearl St.
*Wood, Inc., J. Early, 21 Platt St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Dextrose

Mich., Detroit
Digestive Ferments Co.

Diacetylmorphine Hydrochloride

N. Y., New York City
Heyden Chemical Works, 135 William St.

Diacetylmorphine Pure

N. Y., New York City
Heyden Chemical Works, 135 William St.

Diamalt

Ohio, Cincinnati
American Diamalt Co., 308 W. 4th St.

Dianisidine

N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Klipstein & Co., A., 644 Greenwich St.
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Diastafor

Ohio, Cincinnati
American Diamalt Co., 308 W. 4th St.

Diastase

Ill., Chicago
Armour & Co., Union Stock Yards
Mich., Detroit
Digestive Ferments Co., 16 Locust St.
Parke, Davis & Co.
N. Y., Brooklyn
Maltzyme Co.
N. Y., New York City
Malt-Diastase Co., 79 Wall St.
Merck & Co., 45 Park Place

Diastase, Tala

Mich., Detroit
Parke, Davis & Co.

Diastoid

Wis., Racine
Horlick's Malted Milk Co.

Diax

N. Y., New York City
Malt-Diastase Co., 79 Wall St.

Dibromindigo

Mich., Midland
Dow Chemical Co.

Dicarbo

N. Y., New York City
Rhodes & Co., James H., 162 William St.

Dichlorbenzol

Mich., Midland
Dow Chemical Co.
N. Y., New York City
Hooker Electrochemical Co., 40 Wall St.
Marden, Orth & Hastings Co., Inc., 61 Broadway
National Aniline & Chemical Co., Inc., 244 Madison Ave.
N. Y., Niagara Falls
Niagara Alkali Co.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.
W. Va., Charleston
Rollin Chemical Co., Inc.

Dichlorbenzol, Ortho (*see Dichlorbenzol*)

Dichlorbenzol, Para (*see Dichlorbenzol*)

Dichlorbenzol, Para

Mich., Midland
Dow Chemical Co.

Dicyandiamid

N. Y., New York City
American Cyanamid Co., 511 Fifth Ave.

Diethylaniline

N. J., Plainfield
Browne-Ferrer Co., Inc.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
Edgertyn Aniline Corp., 118 William St.

Digestive Ferments

Mich., Detroit
Parke, Davis & Co.

Digitalin

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Dimethylaniline

Mich., Detroit
Detroit Organic Chemicals Co.
N. J., Bound Brook
Calco Chemical Co.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
DuPont Chemical Works, 120 Broadway
*Hemingway, Inc., Frank, 115 Broadway
Marden, Orth & Hastings Co., 61 Broadway
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Pa., Lock Haven
Stanley Aniline Chemical Works, Inc.

Dimethyl Glyoxime

N. Y., New York City
Holz, Herman A., 50 Church St.
Pa., Pittsburgh
*Scientific Materials Co., Forbes St.

Dinitrobenzol

Ill., Quincy
Monroe Color & Chemical Co.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Drugs & Dyestuff Corp., 120 Broadway
*Geisenheimer & Co., 134 Cedar St.
*Hemingway, Inc., Frank, 115 Broadway
Middlesex Aniline Co., Inc., 149 Broadway
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*Williamson & Co., 120 Broadway
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Sherwin-Williams Co.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Dinitrochlorbenzol

Conn., Stamford
American Synthetic Color Co.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Drugs & Dyestuff Corp., 120 Broadway
DuPont Chemical Works, 120 Broadway
*Geisenheimer & Co., 134 Cedar St.
*Williamson & Co., 120 Broadway
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.

Dinitro naphthaline

N. Y., Kingston
Nitrated Chemicals Co.
R. I., Providence
Agawan Chemical Works
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Dinitrophenol

Conn., Stamford
American Synthetic Color Co.
Mich., Midland
Dow ChemicalCo.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Drug & Dyestuff Corp., 120 Broadway
DuPont Chemical Works, 120 Broadway
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
National Aniline & Chemical Co., 244 Madison Ave.
*Williamson & Co., 120 Broadway
Wright Chemical Co., 38 Park Row
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Dinitrotoluol

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
DuPont Chemical Works, 120 Broadway

Dinitrotoluol—*cont.*

N. Y., New York City—cont.
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
*Geisenheimer & Co., 134 Cedar St.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*Williamson & Co., 120 Broadway
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Diphenylaniline

N. Y., New York City
DuPont Chemical Works, 120 Broadway
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 214 Madison Ave.
N. Y., Wappingers Falls
Standard Aniline Products, Inc.

Direct Khaki (Passaic)

N. J., Passaic
American Color Mfg. Co., Gregory Ave. and River Road

Disinfectants (*see Calcium Hypochlorite, Chloride of Lime*)

Disinfectants, Coal Tar, all kinds

Mo., St. Louis
Cremoline Disinfecting Co., 17 S. Main St.
N. Y., New York City
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Drawing Compounds

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Drugs (*see Chemical, Pharmaceutical*)

Drugs, Synthetic

N. Y., New York City
Perfenol Products Co., Inc., 39 W. 38th St.

Dyewoods, Basic and Normal

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Dyestuffs, Coal Tar (*see also Specific Headings, Colors*)

Cal., San Francisco
Dill-Crossett, Inc., Postal Telegraph Bldg.
Cal., Vernon
Internal Dye Products Co.
Cal., West Berkeley
California Aniline & Chemical Co.
Catalytic Chemical Co., 3d and Bancroft Sts.
Conn., Danielson
Connecticut Color Co.
Conn., Stamford
American Synthetic Color Co.
Del., Wilmington
DuPont de Nemours & Co., E. I.
Fla., Jacksonville
Jacksonville Chemical Mfg. Co.
Ill., Chicago
Holland Aniline Co., 118 W. Kinzie St.
Sherwin-Williams Co., Pullman Station
Street & Co., R. R., 541 W. Washington St.
Ill., Quincy
Monroe Color & Chemical Co.
Md., Baltimore
Bloede Co., Victor G., Caton Ave.
Mass., Boston
Alliance Chemical Co., 176 Federal St.
*Atlantic Dyestuff Co., 88 Ames Bldg.
*Atteaux & Co., 176 Purchase St.
Avery Chemical Co., 88 Broad St.
Merrimac Chemical Co., 33 Broad St.
*Rosentwist & Gorner, 26 India Square
*Thayer & Co., E. M., 411 Atlantic Ave.
United Indigo & Chemical Co., 176 Federal St.
Mass., Melrose
Melrose Chemical Co., Essex St.
Mass., South Boston
Hub Dyestuff & Chemical Co., 595 E. 7th St.
Mass., South Seekonk
Arnold & Marshall Chemical Co.
Mich., Detroit
International Color & Chemical Co. 570 Franklin St.
Mich., Holland
Holland Aniline Co.
Mich., Lansing
Lansing Chemical Co.
Mich., Midland
Dow Chemical Co.
Mich., Wyandotte
*Ford Co., J. B.
Mo., Independence
Independence Aniline & Refining Co.
Mo., St. Louis
Continental Chemical Co., 418 N. 3d St.
H. M. T. Chemical Co., Merchants-Laclede Bldg.
N. J., Bound Brook
Calco Chemical Co.
Peerless Color Co.

Dyestuffs, Coal Tar—*cont.*

N. J., Haledon
Mackey Wood Aniline Co., Inc.
N. J., Jersey City
Seydel Mfg. Co., 86 Forrest St.
N. J., Matawan
Chrome Color Works
N. J., Metuchen
Acme Dyestuff & Chemical Co., Durham Ave.
N. J., Newark
*Brunswick Chemical Co.
*Central Dyestuff & Chemical Co.
Haack & Co., 800 Broad St.
Keystone Dyestuff & Chemical Co., 671 Broad St.
N. J., Pennington
Westover Chemical Co.
N. J., Perth Amboy
National Synthetic Co.
N. Y., Brooklyn
Commonwealth Color & Chemical Co., Butler St.
Hoffman & Kropff Chemical Co., Meeker and Porter Sts.
Iridescent Dyestuff & Chemical Co., 247 Bush St.
Williamsburg Chemical Co., Inc., 230 Morgan Ave.
N. Y., Buffalo
Contact Process Co.
N. Y., Cooks Falls
Beaverkill Dye Works
N. Y., Monticello
Mont Color & Chemical Co.
N. Y., New York City
*Ackerman Co., H. R., 65 Fulton St.
Amalgamated Dyestuff & Chemical Works, Inc., 75 Hudson St.
American Aniline Products, Inc., 80 Fifth Ave.
American Color Mfg. Co., 98 Park Place
American Dyewood Co., 80 Maiden Lane
American Synthetic Dyes Co., Inc., 61 Broad St.
Barrett Co., The, 17 Battery Place
Bayer Co., 117 Hudson St.
Beer, Sondheimer & Co., Inc., 61 Broadway
Berlin Aniline Works, 213 Water St.
*Binney & Smith Co., 81 Fulton St.
*Bischoff & Co., C., 451 Washington St.
Bloch Chemical Co., 67 Fifth Ave.
Brandes Chemical Co., The, 8th Ave.
Brassard & Co., Inc.
Bredt & Co., F., 240 Water St.
Butler Chemical Co., 25 Beaver St.
Butterworth-Judson Corp., 61 Broadway
Caeco Chemical Co., Woolworth Bldg.
Campbell, C. W., 11 Cliff St.
Camden Chemical Co., 42 Broadway
Cassella Color Co., 182 Front St.
Chemical Co. of America, Inc., 28 Platt St.
Chemical Mfg. Co., 48 Gold St.
*Century Colors Corp., 182 Front St.
Consolidated Color & Chemical Co., 122 Hudson St.
Cosmic Aniline Works, 8 W. Broadway
Delbrook Co., 135 William St.
*Doherr, Grimm & Co., 87 Gold St.
*Drug & Dyestuff Corp., 120 Broadway
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
Eagle Color & Chemical Co., 4 Cedar St.
Edgertyn Aniline Corp., 118 William St.
Federal Dyestuff & Chemical Co., 2 Rector St.
Franco American Chemical Works, 8 Gold St.
Franco Swiss Dyes, Inc., 81 Broadway
*Fuerst Bros. & Co., 2 Stone St.
General Chemical Co., 25 Broad St.
*Geisenheimer & Co., 134 Cedar St.
Gold Leaf Natural Dyes Co., 150 Nassau St.
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
Heller & Merz Co., 505 Hudson St.
*Hemingway, Inc. Frank L., 82 Beaver St.
Herman & Herman, Inc., 6 Church St.
Holliday-Kemp Co., Inc., 90 William St.
Holliday, Read & Sons (Ltd.), 160 Franklin St.
Independent Chemical Co., 72 Front St.
*Innis, Speiden & Co., 46 Cliff St.
*Jaeck Co., Louis, 257 Front St.
Jamaica Dyewood & Chemical Co., 50 Church St.
Kalle Color & Chemical Co., 530 Canal St.
*Ketchum & Co., 65 Fulton St.
Klipstein & Co., A., 644 Greenwich St.
*Klipstein & Co., E. C., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
*Lascelles & Co., A. S., 10 Bridge St.
*Lengfelt & Co., F. H., 100 Maiden Lane
L. & R. Organic Products Co., Inc., 8 Gold St.
Marden, Orth & Hastings Corp., 61 Broadway

Dyestuffs, Coal Tar—*cont.*

N. Y., New York City—cont.
Marks Dye Mfg. Co., Inc., Eli, 484 Broadway
Merck & Co., 45 Park Place
Mont Color & Chemical Co., 90 Wall St.
National Aniline & Chemical Co., 244 Madison Ave.
National Gum & Mica Co., 59th St. and 11th Ave.
New York Color & Chemical Co., 212 Pearl St.
*New York Quebracho Co., 80 Maiden Lane
Perolin Co. of America, Woolworth Bldg.
Reliance Aniline & Chemical Co., 100 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
Saxe Chemical Co., 99 Nassau St.
Segal & Co., Inc., George H., 95 William St.
*Simeon & Elting, 93 Nassau St.
Stamford Mfg. Co., 82 Wall St.
Standard Aniline Co., 366 5th Ave.
Standard Color Works, 55 Liberty St.
Transatlantic Chemical Corp., 80 Wall St.
West Indies Chemical Works, 80 Maiden Lane
White Tar Co., 6 Cliff St.
Zobel Co., Inc., Ernst, 38 Water St.

N. Y., Solvay
Solvay Process Co.

N. Y., Wappingers Falls
Standard Aniline Products Co., Inc.

N. Y., North Tonawanda
Synthetic Products Co., Inc., 447 Oliver St.

N. Y., Schenectady
Organic Products Corp.

Ohio, Amherst
Briggs Chemical Works Co.

Ohio, Cincinnati
Ault & Wiborg Co.
Gates Aniline Products Co.

Ohio, Marietta
Obex Co., The

Ohio, Sandusky
Hord Color Products Co., 424 E. Market St.

Pa., Easton
Baker & Adamson Chemical Co.

Pa., Fort Washington
Columbia Chemical Constructive Co.

Pa., Lockhaven
Stanley Aniline Chemical Works

Pa., Manayunk
Dye Products Co.

Pa., Marcus Hook
Benzol Products Co

Pa., Philadelphia
*Andreykovicz & Dunk, 116 N. Front St.
*Bick & Undy, 49 S. Front St.
Coyne, George S., 58 N. Front St.
Fleming Chemical Co., 1711 Crasford Road
*Fuller & Apeldorn, 23 S. 9th St.
Kali Mfg. Co., 1408 Front St.
*Pennsylvania Color Mfg. Co., 248 Chestnut St.
Philadelphia Aniline & Extract Co., Bourse Bldg.

Pa., Reading
Althouse Chemical Co., 500 Pear St.
Gates Aniline Products Co.
Reading Chemical Mfg. Co.

Pa., Scranton
American Color Co.

R. I., Providence
Agawan Chemical Works, 531 Grosvenor Bldg.
*Arnold, Hoffman & Co., 55 Canal St.
Industrial Chemical Co., P. O. Box 490
*Lewis, John D.

Tenn., Kingsport
Federal Dyestuff & Chemical Co.

Wash., Seattle
West Coast Chemical Co., 6961 Woodlawn Ave.

W. Va., South Charleston
Klipstein & Sons Co., E. C.

Wis., Marinette
Ansul Chemical Co.

Dyestuffs, Vegetable

Cal., San Diego
Lower California Chemical Co.

Md., Baltimore
Young Co., The, J. S.

Mass., Boston
Neponst Color Co., Hyde Park
Zobel Co., Inc., Ernest, 46 Cornhill

Mass., South Boston
Hub Dyestuff & Chemical Co., 595 E. 7th St.

N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine Sts.

N. Y., Long Island City
Oakes Mfg. Co.

N. Y., New York City
Baltic Chemical Co., 183 Duane St.
*Binney & Smith Co., 81 Fulton St.
Marden, Orth & Hastings Co., 61 Broadway
Stamford Mfg. Co., 82 Wall St.
United Dyewood Corp., 80 Maiden Lane

Ohio, Marietta
Obex Co., The

Dyestuffs, Vegetable—*cont.*

Okla., Wapanauka
Dale Mfg. Co., James C.
Pa., Hanover
Young & Co., J. S.
Pa., Mt. Union
Mt. Union Tanning & Extract Co.
R. I., Providence
*Lewis, John D., 1209 Turks Head Bldg.
Va., Charlottesville
Young & Co., H. E.
Va., Lynchburg
Heald & Co., John H., Inc.

Dynamite (*see Explosives*)

Dynamite Gelatins

Del., Wilmington
Atlas Powder Co.
Hercules Powder Co., 10th and Market Sts.
Mass., Boston
Merrimac Chemical Co., 32 Broad St.

Earth (*see Clay, Fuller's Earth and Infusorial Earth*)

Earth, Bleaching

Pa., Warren
Floridin Co.

Earth, Diatomaceous

Nev., Reno
Neo Mfg. Co., P. O. Box 672

Earth, Infusorial

N. J., Lincoln
Atlas Mineral Products Co., The

Earth, "The Neo"

Nev., Reno
Neo Mfg. Co., P. O. Box 672

Electrolyte

Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road
Pa., Warren
Riverside Acid Works

Elixirs, Medicinal

N. Y., Norwich
Norwich Pharmacal Co.

Emery Ore

Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Emetin

Ill, Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Emetine Hydrochloride

Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.

Enamels

N. J., Newark
Murphy Varnish Co., Chestnut and McWhorter Sts.
N. Y., Buffalo
Pratt & Lambert, Inc., 75-97 Tonawanda St.
N. Y., New York City
Berry Bros., 262 Pearl St. (Luxeberry)
Brandes Chemical Co., 8th Ave.
Calman, Emil & Co., 100 William St.
DuPont Chemical Works, 120 Broadway
General Bakelite Co., 2 Rector St.
Toch Bros., 320 Fifth Ave.

Enamels, Acid Proof

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Enamels, Floor

Mich., Detroit
Trus-Con Laboratories, Caniff Road and G. T. R. R.

Enamels, Industrial

Mich., Detroit
Trus-Con Laboratories, Caniff Road and G. T. R. R.

Enamels, Laboratory

N. Y., New York City
Toch Bros., 320 5th Ave.

Enamels, for Copper, Gold and Silver

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Enamels, for Apparatus, Black Baking and Air Drying

Ohio, Cleveland
Glidden Varnish Co., 11001 Madison Ave.

Enamels, for Steel and Cast Iron

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Enamels, Porcelain

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Enamels, Porcelain, for Sheet Iron and Cast Iron

Md., Baltimore
Porcelain Enamel & Mfg. Co., O'Donnel and 8th Sts.

Enamels, Pyralin

N. Y., New York City
DuPont Chemical Works, 120 Broadway

Enamels, Pyroxylin

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.
N. Y., New York City
Arlington Co., The, 725–727 Broadway
DuPont Chemical Works, 120 Broadway

Enamels, Technical

Mich., Detroit
Trus-Con Laboratories, Caniff Road and G. T. R. R.

Enzymes

Mich., Detroit
Digestive Ferments Co.

Epsom Salts (*see also Magnesium Sulfate*)

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
England, Smithy Bridge near Rochdale
Dearhead Chemical Co.
Ill., Chicago
Laboratory Materials Co., 7404 Calumet Ave.
Mass., Boston
*King & Co., Inc., E. & F., 3067 Atlantic Ave.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Harshaw, Fuller & Goodwin Co., 100 William St.
Marden, Orth & Hastings Co., 61 Broadway
*Nitrate Agencies Co., 102 Pearl St.
*Van Brunt & Co., Inc., J. A., 114 John St.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Sq.

Epsom Salts, U.S.P. (*see also Magnesium Sulfate*)

Ill., Chicago
Victor Chemical Works, 1810 Fisher Bldg.

Erythrosin

N. Y., New York City
*Geisenheimer & Co., 134 Cedar St.

Eosine

N. Y., Monticello
Mont Color & Chemical Co.
N. Y., New York City
*Geisenheimer & Co., 134 Cedar St.

Ether

Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
Bush & Co., W. J., 100 William St.
Cooper, Chas., & Co., 194 Worth St.
DuPont Chemical Works, 120 Broadway
Merck & Co., 45 Park Place
Squibb, E. R., & Son, 78 Beekman St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Ether, Acetic

Mo., St. Louis
Mallinckrodt Chemical Works
N. J., Wallington
Anderson Chemical Co.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
National Aniline & Chemical Co., Inc., 244 Madison Ave.
DuPont Chemical Works, 120 Broadway
Squibb & Sons, E. R., 82 Beekman St.

Ether, Beta-Naphthyl Ethyl

N. Y., New York City
Organic Products Corp., 369 State St.

Ether, Beta Naphthyl Methyl

N. Y., New York City
Organic Products Corp., 369 State St.

Ether, Petroleum

Ill., Chicago
Mojonnier Bros., Co., 833 W. Jackson Blvd.

Ether, Sulphuric (*see Ether*)

Ether, U.S.P.

N. Y., New York City
DuPont Chemical Works, 120 Broadway

Ethyl Acetate

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.
Ill., Chicago
Van Schaack Bros. Chemical Works
N. J., Carlstadt
Franco-American Chemical Works
N. J., Wallington
Anderson Chemical Co.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
DuPont Chemical Works, 120 Broadway
U. S. Industrial Alcohol Co., 27 William St.

Ethyl Benzoate

N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.

Ethyl Bromide

Mich., Midland
Dow Chemical Co.
N. J., Plainfield
Browne-Ferrer Inc.

Ethyl Butyrate

Ill., Chicago
Van Schaack Bros. Chemical Works

Ethyl Chloride

N. J., Carlstadt
Franco-American Chemical Works
N. J., Plainfield
Browne-Ferrer Inc.
N. Y., New York City
Clothel Co., The, 61 Broadway
Cooper & Co., Chas., 194 Worth St.
*Fries & Bro., 92 Reade St.
National Gum & Mica Co., 59th and 11th Ave.
*Schwenker, Inc., W. M., 340-344 E. 92d St.

Ethyl Ether (*see Ether*)

Ethylmonochloracetate

Mich., Midland
Dow Chemical Co.

Ethyl Nitrite

N. J., Carlstadt
Franco-American Chemical Co.

Ethyl Valerate

Ill., Chicago
Van Schaack Bros. Chemical Works

Eucalyptol

N. Y., New York City
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Eugenol

N. Y., New York City
Bush & Co., W. J., 100 William St.

Eugenol, Iso

N. Y., New York City
Bush & Co., W. J., 100 William St.

Explosives

Cal., San Francisco
Giant Powder Co., Consolidated, 1st National Bank Bldg.
Del., Wilmington
Atlas Powder Co.
DuPont de Nemours & Co., E. I.
Hercules Powder Co., 10th and Market Sts.
Ill., Chicago
Swift & Co., Union Stock Yards
Mass., Boston
American Powder Mills, 1002 Bd. Trade Bldg.
Merrimac Chemical Co., 32 Broad St.
N. Y., New York City
Aetna Explosives Co., 120 Broadway
Ohio, Cincinnati
King Powder Co., First National Bank Bldg.
Ohio, Cleveland
Grasselli Powder Co.
Pa., Emporium
Cameron Powder Mfg. Co.
Tenn., Nashville
United States Smokeless Powder Co.
W. Va., Charleston
United States Smokeless Powder Co.

Extracts, Archil

Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
*Bischoff & Co., C., 451 Washington St.
*Geisenheimer & Co., 134 Cedar St.
*Innis, Speiden & Co., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.

Extracts, Blend

Pa., Hanover
Young & Co., J. S.

Extracts, Chestnut

Mass., Boston
Smethport Extract Co., 409 Exchange Bldg.
N. Y., Glen Falls
Imperial Dyewood Co.
N. Y., New York City
Imperial Dyewood Co., 47 W. 34th St.
N. C., Rosman
Rosman Tanning Extract Co.
Pa., Mt. Union
Mt. Union Tanning & Extract Co.
Va., Lynchburg
Heald & Co., J. H.
Va., Marion
Marion Extract Co.
W. Va., Charleston
Tanners Extract Co.

Extracts, Chestnut Oak Bark

Pa., Hanover
Young & Co., J. S., Park Ave.

Extracts, Chestnut Wood

Pa., Hanover
Young & Co., J. S., Park Ave.

Extracts, Cutch

England, Manchester
*Willcocks & Co., Ltd., H. S., 5, Beaver St.
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
N. Y., Glen Falls
Imperial Color Works, Inc.
Imperial Dyewood Co.
N. Y., Long Island City
Oakes Mfg. Co.
N. Y., New York City
American Dyewood Co., 80 Maiden Lane
Berlin Aniline Works, 213 Water St.
Bredt & Co., F., 230 Water St.
*Fuerst Bros., & Co., 2 Stone St.
*Fuller & Co., Ralph L., 4 Rector St.
Hillier's Sons Co., R., 100 William St.
*Innis, Speiden & Co., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
*Lengfelt & Co., F. H., 100 Maiden Lane
Marden, Orth & Hastings Co., 61 Broadway
Stamford Mfg. Co., 88 Wall St.
White Tar Co., 6 Cliff St.
Pa., Hanover
Young & Co., J. S.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.

Extracts, Deadwood

Mass., Boston
United Indigo & Chemical Co., 176 Federal St.

Extracts, Dyewood

Mass., Worcester
Marble & Co., J. Russell
N. Y., New York City
Berlin Aniline Works, 213 Water St.
Bredt & Co., &., 240 Water St.
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros. & Co., 2 Stone St.
*Holliday, Read & Sons (Ltd.), 160 Franklin St.
*Innis, Speiden & Co., 46 Cliff St.
*Jaeck Co., Louis, 257 Front St.
Jamaica Dyewood & Chemical Co., 50 Church St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Co., 61 Broadway
Stamford Mfg. Co., 82 Wall St.
Pa., Hanover
Young & Co., J. S., Park Ave.
Pa., Philadelphia
*Andreykovicz & Dunk, 58 N. Front St.
*Fortner Co., L. B., 36-38 Strawberry St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.

Extracts, Fustic

England, Manchester
Robinson & Co., H. F., Newton Heath
*Willcocks & Co., Ltd., H. S., 5, Beaver St.
Mass., Boston
Bird, J. A. & W., Co.,
United Indigo & Chemical Co., 176 Federal St.
N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine Sts.
N. Y., Glen Falls
Imperial Color Works, Inc.
Imperial Dyewood Co.
N. Y., Long Island City
Oakes Mfg. Co.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
Edgertyn Aniline Corp., 118 William St.
*Holliday, Read & Sons (Ltd.), 160 Franklin St.

Extracts, Fustic—*cont.*

N. Y., New York City—cont.
*Innis, Speiden & Co., 46 Cliff St.
Jamaica Dyewood & Chemical Co., 50 Church St.
Kalle Color & Chemical Co., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., 128 Duane St.
Marden, Orth & Hastings Co., 61 Broadway
*Sloan & Russell, Inc., 132 Nassau St.
Stamford Mfg. Co., 82 Wall St.
Pa., Hanover
Young & Co., J. S.
Pa., Philadelphia
Vila Color Co., H. S., 243 S. 2d St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Gambier

N. Y., Long Island City
Oakes Mfg. Co.
N. Y., New York City
*Fuller & Co., Ralph, 4 Rector St.
Pa., Hanover
Young & Co., J. S.

Extracts, Hematine

N. Y., Glen Falls
Imperial Color Co., Inc.
Imperial Dyewood Co.
N. Y., Long Island City
Oakes Mfg. Co.
N. Y., New York City
American Dyewood Co.
*Campbell, C. W., 11 Cliff St.
Industrial Chemical Co., Fifth Ave. Bldg.
Jamaica Dyewood & Chemical Co., 50 Church St.
Marden, Orth & Hastings Co., 61 Broadway
*Sloan & Russell, Inc., 132 Nassau St.
United States Dye Extracts Co., 801 Vernon Ave.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John

Extracts, Hemlock

Ill., Chicago
American Extract Co., 129 W. Kinzie St.
Mich., Petoskey
Michigan Tanning & Extract Co.
N. Y., New York City
Imperial Dyewood Co., 47 W. 34th St.
Pa., Hanover
Young & Co., J. S.
Pa., Port Alleghany
American Extract Co.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Hypernic

N. Y., Glen Falls
Imperial Color Co., Inc.
Imperial Dyewood Co.
N. Y., New York City
Jamaica Dyewood & Chemical Co. 50 Church St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
*Sloan & Russell, Inc., 132 Nassau St.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Indigo

Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
N. Y., New York City
*Holliday, Read & Sons (Ltd.), 11 Gold St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., 128 Duane St.
Marden, Orth & Hastings Co., 61 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
Pa., Philadelphia
*Andreykovicz & Dunk, 58 N. Front St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.

Extracts, Logwood

Cal., San Francisco
Dill-Crossett, Inc., Postal Telegraph Bldg.
England, Manchester
Robinson & Co., H. F., Newton Heath
*Willcocks & Co., Ltd., H. S., 5, Beaver St.
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
Mass., Worcester
*Brewer & Co.

Extracts, Logwood—*cont.*

N. J., Camden
MacAndrews of Forbes Co., 3d St. and Jefferson Ave.
Taylor, White Extracting Co., Cooper River and Pine St.
N. Y., Glen Falls
Imperial Color Co., Inc.
Imperial Dyewood Co.
N. Y., Long Island City
Oakes Mfg. Co.
U. S. Dye Extracts Co., Inc., 801 Vernon Ave.
N. Y., New York City
American Dyewood Co., 80 Maiden Lane
Bayer Co., Inc., 117 Hudson St.
*Campbell, C. W., 11 Cliff St.
*Doherr, Grimm & Co., 87 Gold St.
Edgertyn Aniline Corp., 118 William St.
*Holliday, Read & Sons, Ltd., 160 Franklin St.
*Fuller & Co., Ralph, 4 Rector St.
*Innis, Speiden & Co., 46 Cliff St.
Jamaica Dyewood & Chemical Co., 50 Church St.
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Logwood Products Corp., 115 Broadway
Marden, Orth & Hastings Co., 61 Broadway
National Gum & Mica Co., 59th St. and 11th Ave.
*Sloan & Russell, Inc., 132 Nassau St.
Stamford Mfg. Co., 82 Wall St.
Pa., Hanover
Young & Co., J. S., Park Ave.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.
Va., Lynchburg
Heald & Co., Inc., John

Extracts, Mangrove

N. Y., Glen Falls
Imperial Color Co., Inc.
Imperial Dyewood Co.
N. Y., New York City
Jamaica Dyewood & Chemical Co., 50 Church St.
*Kuttroff, Pickhardt & Co., Inc., 1128 Duane St.
*Sloan & Russell, Inc., 132 Nassau St.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Myrabolam

N. Y., Glen Falls
Imperial Color Co., Inc.
Imperial Dyewood Co.
N. Y., New York City
Jamaica Dyewood & Chemical Co., 50 Church St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
*Sloan & Russell, Inc., 132 Nassau St.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Oak

Mass., Boston
Smethport Extract Co., 409 Exchange Bldg.
N. Y., New York City
*Doherr, Grimm & Co., Inc., 87 Gold St.
Pa., Hanover
Young & Co., J. S.
Tenn., Knoxville
Southern Extract Co.
Tenn., Newport
Chilhowie Extract Co.
Va., Buena Vista
Buena Vista Extract Co.
Va., Marion
Marion Extract Co.
W. Va., Charleston
Tanners Extract Co.

Extracts, Osage Orange

N. Y., Glen Falls
Imperial Color Works, Inc.
Imperial Dyewood Co.
N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway
National Gum & Mica Co., 59th St. and 11th Ave.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Pharmaceutical

(*see Chemicals, Pharmaceutical*)

Extracts, Quebracho

N. Y., Glen Falls
Imperial Color Works, Inc.
Imperial Dyewood Co.
N. Y., New York City
Argentine Quebracho Co., 17 Battery Place
*Doherr, Grimm & Co., 87 Gold St.
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.

Extracts, Quebracho—*cont.*

N. Y., New York City—cont.
Marden, Orth & Hastings Co., 61 Broadway
*New York Quebracho Extract Co., Inc. 80 Maiden Lane
Stamford Mfg. Co., 82 Wall St.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Quercitron

N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine St.
N. Y., Glen Falls
Imperial Color Works, Inc.
Imperal Dyewood Co.
N. Y., New York City
*Fuller & Co., Ralph, 4 Rector St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
*Sloan & Russell, Inc., 132 Nassau St.
Pa., Hanover
Young & Co., J. S.
Va., Lynchburg
Heald & Co., John N., Inc.

Extracts, Quercitron Bark

England, Manchester
Robinson & Co., H. F., Newton Heath
Pa., Hanover
Young & Co., J. S., Park Ave.

Extracts, Spruce

Pa., Hanover
Young Co., J. S.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Sumac

Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
Mass. Worcester
Brewer & Co.
Marble & Co., J. Russell
N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine Sts.
N. Y., Long Island City
Oakes Mfg. Co.
N. Y., Hastings-On-Hudson
*Zinsser & Co.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
Edgertyn Aniline Corp., 118 William St.
Bredt & Co., F., 240 Water St.
*Holliday, Read & Sons (Ltd.) 160 Franklin St.
Jamaica Dyewood & Chemical Co., 50 Church St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Co., 61 Broadway
Stamford Mfg. Co., 82 Wall St.
Pa., Hanover
Young & Co., J. S., Park Ave.
Pa., Philadelphia
*Andreykovicz & Dunk, 58 N. Front St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.
Va., Lynchburg
Heald & Co., Inc., John H.

Extracts, Tanning

Ill., Chicago
American Extract Co., 129 W. Kinzie St.
Mass., Boston
Smethport Extract Co., 409 Exchange Bldg.
United Indigo & Chemical Co., 176 Federal St.
Mich., Muskegon
Michigan Tanning & Extract Co.
Muskegon Extract Co.
N. J., Newark
*American Oil & Supply Co., 52 Lafayette Ave.
N. Y., Glen Falls
Imperial Color Works, Inc.
Imperial Dyewood Co.
N. Y., New York City
*Doherr, Grimm & Co., 87 Gold St.
Edgertyn Aniline Corp., 118 William St.
*Herman & Herman, Inc., 6 Church St.
Industrial Chemical Co., 200 Fifth Ave.
Marden, Orth & Hastings Co., 61 Broadway
*New York Quebracho Co., 80 Maiden Lane
Stamford Mfg. Co., 82 Wall St.
Zobel Co., Inc., Ernest, 38 Water St.
Pa., Hanover
Young & Co., J. S., Park Ave.
Pa., Mt. Union
Mt. Union Tanning & Extract Co.
Tenn., Kingsport
Kingsport Extract Corp.
Tenn., Knoxville
Southern Extract Co.
Tenn., Newport
Chilhowie Extract Co.

Extracts, Tanning—*cont.*

Va., Buena Vista
Buena Vista Extract Co.
Va., Harrisonburg
Excelsior Oak Extract Co.
Va., Lynchburg
Heath & Co., Inc., J. H.
Va., Marion
Marion Extract Co.
W. Va., Charleston
Tanners Extract Co.

Feldspar

Ill., Chicago
*Rhodes, J. H., Co., 157 W. Austin Ave.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Greene St.
N. Y., New York City
Hammill & Gillespie, 240 Front St.
*Whittaker, W. H., 250 Front St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.
Va., Clifton Forge
Carolina Feldspar-Mica Corp.

Ferments

Mich., Detroit
Digestive Ferments Co., 16 Locust St.
Parke, Davis & Co.
Stearns & Co., Frederick, Jefferson and Bellevue Ave.
N. Y., Little Falls
Burrell & Co., D. H.
Hansen's Laboratory, Chr., P. O. Box 3099
N. Y., New York City
Fairchild Bros. & Foster, 74 Laight St.
Franco-American Ferment Co., 124 W. 31st St.
Pasteur Laboratories of America, 366 W. 11th St.
Pa., Hanover
Acme Extract & Chemical Works
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Sq.

Ferric Acetate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Ferric Cacodylate

N. Y., New York City
*Fougera & Co., E., 90 Beekman St.

Ferric Chloride

N. Y., New York City
Eissing Chemical Co., 225 Fifth Ave.
General Chemical Co., 25 Broad St.
Roessler & Hasslacher Chemical Co., 100 William St.
Squibb & Sons, E. R., 80 Beekman St.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.

Ferric Chloride, Crystals, U.S. P.

Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Co., 3600 N. 2d St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Ferric Chloride, Liquid, U.S.P.

Mich., Midland
Dow Chemical Co.

Ferric Chromate

N. Y., New York City
*Chrystal, Chas. B., 11 Cliff St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Ferric Nitrate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
General Chemical Co., 25 Broad St.

Ferric Oxide

Cal., San Francisco
Stauffer Chemical Co., 624 California Ave.
N. J., Lincoln
Atlas Mineral Products Co., The
N. Y., Brooklyn
Wiarda & Co., John C., 273 Greene St.
N. Y., New York City
Baker & Co., H. J., 100 William St.
*Chrystals, Charles B., 11 Cliff St.
Du Pont Chemical Co., 120 Broadway
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
*Fuller & Co., Ralph, L., 4 Rector St.
Heller & Merz Co., 505 Hudson St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*Osborn Co., C. J., 132 Nassau St.
*Tennant Sons & Co., C., 100 William St.
Pa., Allentown
Princess Metallic Paint Co.
Pa., Sellersville
Radium Co. of America

Ferric Oxide—*cont.*

Ohio, Cleveland
Grasselli Chemical Co.
*Harshaw, Fuller & Goodwin Co.

Ferric Oxide, Hydrated

Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Ferric Vanadate

Colo., Denver
Chemical Products Co., 612 Majestic Bldg.

Ferro-Alloys (*see also Specific Headings*)

N. Y., New York City
American Metal Co., Ltd., 61 Broadway
Goldschmidt-Thermit Co., 120 Broadway
N. Y., Niagara Falls
Titanium Alloy Mfg. Co.
Ohio, Cincinnati
Walter-Wallingford & Co.
Pa., Philadelphia
American Manganese Mfg. Co.
Foote Mineral Co., 120 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
American Vanadium Co.
Standard Alloys Co.
Vanadium Metals Co.

Ferro Cerium

N. Y., New York City
Electric Reduction Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Ferro Chrome

Cal., San Francisco
Noble Electric Steel Co., Hewes Bldg.
D. C., Washington
Capital Chemical Co., 621 Alabama Ave.
N. Y., New York City
Electric Reduction Co.
Goldschmidt Thermit Co., 120 Broadway
*Klipstein & Co., A., 644 Greenwich St.

Ferro Manganese

N.Y., New York City
American Metal Co.., Ltd., 61 Broadway
Electric Reduction Co.,
*Klipstein & Co., A., 644 Greenwich St.
New Jersey Zinc Co., 55 Wall St.
Ohio, Cincinnati
Walter-Wallingford & Co.
Pa., Philadelphia
Foote Mineral Co., 130 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.

Ferro Manganese, 80%

N. Y., New York City
Cooper & Co., Chas., 194 Worth St.

Ferro Manganese, Low Carbon

Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Ferro Molybdenum

D. C., Washington, Congress Heights
Capital Chemical Co., 621 Alabama Ave.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
Electric Reduction Co.
Goldschmidt Thermit Co., 120 Broadway
*Klipstein & Co., A., 644 Greenwich St.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Canada, Orillia, Ontario
International Molybdenum Co., Ltd.

Ferro Silicon

Mass., Cambridge
Exlon Co., The, 156 Sixth St.
N. Y., New York City
Electric Reduction Co.
*Klipstein & Co., A., 644 Greenwich St.
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Ferro Titanium

N. Y., New York City
Goldschmidt Thermit Co., 120 Broadway
Klipstein & Co., A., 644 Greenwich St.

Ferro Tungsten

Del., Wilmington
Mineral Products Mfg. Co., Inc.
D. C., Washington, Congress Heights
Capital Chemical Co., 621 Alabama Ave.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
Electric Reduction Co.
Electro-Metallurgical Co., 42d St. Bldg.
Goldschmidt Thermit Co., 120 Broadway
*Klipstein & Co., A., 644 Greenwich St.
Virginia Electrolytic Co., 99 Cedar St.

Ferro Tungsten—*cont.*
Pa., Pittsburgh
Vanadium Alloy Steel Co.
Pa., Primos
Primos Chemical Co., Inc.

Ferro Uranium

N. Y., New York City
Electric Reduction Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Pa., Pittsburgh
Standard Alloys Co., Forbes and Meyren Aves.

Ferro Vanadium

N. Y., New York City
Electric Reduction Co.
Goldschmidt Thermit Co., 120 Broadway
*Klipstein & Co., A., 644 Greenwich St.
Pa., Philadelphia
Foote Mineral Co., Inc., 120 N. 19th St.
Pa., Pittsburgh
American Vanadium Co., Vanadium Bldg.
Basic Products Co.
Standard Alloys Co., Forbes and Meyren Aves.

Ferrozirconium

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Ferrous Ammonium Sulphate

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Ferrous Chloride

Mo., St. Louis
Dow Chemical Co.
N. Y., New York City
Butterworth-Judson Corp., 61 Broadway
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
Roessler & Hasslacher Chemical Co., 100 William St.
Squibb & Sons, E. R., 80 Beekman St.
Ohio, Cleveland
Grasselli Chemical Co.
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.

Ferrous Citrate

N. Y., New York City
*Pfizer & Co., Chas., 81 Maiden Lane

Ferrous Sulphate

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
England, Liverpool
Haddock, Parker & Co., 14 Chapel St.
Ill., Chicago
American Steel & Wire Co.
Rhodes Co., James H., 157 Austin Ave.
Ill., Peoria
Keystone Steel & Wire Co.
Mass., Boston
King & Co., Inc., E. & F., 367 Atlantic Ave.
Md., Baltimore
*Walter Co., Edw. J., 803 American Bldg.
Mo., Kansas City
National Zinc Co., Packers Station
Mo., St. Louis
*Heil Chemical Co., Henry, 210–214 S. 4th St.
N. Y., New York City
Mallinckrodt Chemical Works, 3600 N. 2d St.
General Chemical Co., 25 Broad St.
*Beer, Sondheimer & Co., 61 Broadway
Kalbfleisch Corp., 31 Union Square, W.
Marden, Orth & Hastings Co., 61 Broadway
Merck & Co., 45 Park Place
*Rockhill & Vietor, 22 Cliff St.
Squibb & Sons, E. R., 80 Beekman St.
Toch Bros., 320 5th Ave.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co.
Ohio, Columbus
*Harshaw, Fuller & Goodwin Co.
Ohio, Youngstown
Youngstown Sheet & Tube Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.
Powers-Weightman-Rosengarten Co.
Taylor & Co., N. & G., 300 Chestnut St.
*Thomas Co., Arthur H., W. Washington Square

Ferrous Sulphate, Pure Crystals, Tech.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Fertilizer Materials

Ala., Birmingham
Tennessee Coal, Iron & R.R. Co.
Ala., Montgomery
Alabama Chemical Co.
Cal., Berkeley
Pacific Guano & Fertilizer Co.
Cal., Los Angeles
Armour Fertilizer Works, 119 Central Ave.
Cal., San Francisco
Hawaiian Fertilizer Co., 244 California St.
Mountain Copper Co., 32 Pine St.
Pacific Guano & Fertilizer Co., 343 Sansome St.
Union Sugar Co., 310 Sansome St.
Union Superphosphate Co., 343 Sansome St.
Western Grain & Sugar Products Co., 110 Sutter St.
Conn., Middletown
Rogers & Hubbard Co., The
Del., Lewes
Lewes Fisheries Co.
Fla., Gainesville
Florida Fertilizer Mfg. Co.
Fla., Jacksonville
Armour Fertilizer Works
Fla., Ocala
Camp Phosphate Co.
Fla., Pierce
Pierce Phosphate Co.
Fla., Rockwell
Dunnellon Phosphate Co.
Fla., Tampa
Gulf Fertilizer Co.
Ga., Athens
Southern Refining Co.
Ga., Atlanta
Armour Fertilizer Works
Empire Cotton Oil Co.
Marietta Fertilizer Co.
Ga., Savannah
Comer, E. T., & Co.
Hull, James, & Co.
Southern Fertilizer & Chemical Co.
Ill., Chicago
Armour Fertilizer Works
Cudahy Packing Co.
Morris & Co., Union Stock Yards
Swift & Co., Union Stock Yards
Wilson & Co.
Ind., Evansville
Evansville Packing Co.
La., New Orleans
New Orleans Acid & Fertilizer Co. Gretna Lane
Planters Fertilizer & Chemical Co.
Standard Guano & Chemical Mfg. Co., Whitney Central Bldg.
Me., Portland
Portland Rendering Co.
Md., Baltimore
Baugh & Sons Co., 27 S. Calvert St.
Ober, G., & Sons Co., Fidelity Bldg.
Patapsco Guano Co., Vicker's Bldg.
Rasin-Monumental Co., National Marine Bank Bldg.
Mass., Boston
Bowker Fertilizer Co.
Bradley Fertilizer Works, 92 State St.
Consolidated Rendering Co.
Mich., Detroit
Michigan Carbon Works, Carbon and Formen Aves.
Miss., Brookhaven
Brookhaven Cotton Oil & Fertilizer Co.
Mo., St Louis
Mathiason, P. B., Mfg. Co., 5342 N. 2d St.
Neb., Omaha
Potash Products Co.
N. J., Newark
Lister Agricultural Chemical Works
N. J., Stewartsville
Edison Portland Cement Co.
N. Y., Buffalo
Buffalo Fertilizer Works, Marine National Bank Bldg.
Dold Packing Co., Jacob, 745 William St.
N. Y., New York City
American Agricultural Chemical Co., 2 Rector St.
American Beet Sugar Co., 32 Nassau St.
American Cotton Oil Co.
American Cyanamid Co.
Baker & Bro. Co., J. H., 100 William St.
Coe-Mortimer Co., 51 Chambers St.
*Consumers Chemical Corp., 25 Broad St.
Diamond Glue Co., 127 Water St.
*Heller, Hirsh & Co., 62 William St.
International Agricultural Corp., 165 Broadway
*Mapes Formula & Peruvian Guano Co., 143 Liberty St.
Marden, Orth & Hastings Co., 61 Broadway
Peace River Phosphate Mining Co., 2 Rector St.
Phosphate Mining Co., 55 John St.
Salmon & Co., H. H., 88 Wall St.
Southern Cotton Oil Co., 2 Broad St.
*Wessel, Duval & Co.
Ohio, Cincinnati
Jarecki Chemical Co.
Joslin-Schmidt Co., 3223 Spring Grove Ave.
Ohio, Sandusky
Jarecki Chemical Co.

Fertilizer Materials—*cont.*

Pa., Philadelphia
Baugh & Sons Co., 20 S. Delaware Ave.
Hafleigh & Co., 2813 N. American Ave.
Martin Co., D. B., Inc., 30th and Market Sts.
Pennsylvania Salt Mfg. Co.
Shoemaker, M. L., & Co., Ltd., E. Venango, near Delaware Ave.
Thomas & Son Co., I. P., Drexel Bldg.
Walker, Stratman & Co., Herrs Island
Pa., Pittsburgh
American Reduction Co., Brushton Ave. and P. R. R.
Pittsburgh Provision & Packing Co., Herrs Island
Pa., York
York Chemical Works
S. C., Charleston
Combahee Fertilizer Co.
Etiwan Fertilizer Co.
Planters' Fertilizer & Phosphate Co.
Tenn., Chattanooga
Scholze & Bro., E. W.
Tenn., Columbia
International Phosphate Co.
Tenn., Memphis
Tennessee Cotton Oil Co.
Tenn., Nashville
Continental Fertilizer Co.
National Fertilizer Co.
Read Phosphate Co.
Tennessee Chemical Co.
Tennessee Fertilizer Co.
Texas, Houston
Houston Packing Co.
Va., Norfolk
American Fertilizing Co.
Atlantic Chemical Corp.
Columbia Guano Co.
Royster, E. S., Guano Co.
Va., Richmond
Virginia-Carolina Chemical Co.
Wash., Anacortes
Robinson Fisheries Co.

Fillers

N. Y., Buffalo
Pratt & Lambert, Inc., 75–97 Tonawanda St.

Fillers, Paper

N. Y., New York City
Talc Products Co.
N. Y., Syracuse
Solvay Process Co.

Fire Brick (*see Brick, Fire Clay*)

Fire Clay

Colo., Denver
Mine & Smelter Supply Co.
Mo., St. Louis
Missouri Fire Brick Co.
N. J., Perth Amboy
Didier-March Co.
Ohio, Cleveland
Stowe Fuller Co.
N. Y., New York City
Celite Products Co., 11 Broadway
Pa., Curwensville
Bickford Fire Brick Co.
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Fire Clay, Special Shapes

N. J., Perth Amboy
Didier-March Co.

Fire Clay Brick (*see Brick, Fire Clay*)

Fire Extinguishing Compound

N. J., Camden
MacAndrews & Forbes Co., 3d St. and Jefferson Ave.

Flavine

Pa., Hanover
Young & Co., J. S., Park Ave.

Florine, Diamond

Pa., Reading
Althouse Chemical Co.

Flour, Fossil

N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.

Fluorspar

Ky., Marion
Kentucky Fluor Spar Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Hammill & Gillespie, 240 Front St.
Rhodes, J. H., & Co., 162 William St.
*Tennant, C., Sons & Co., 100 William St.
*Waddell, R. J,. & Co., 52 Beekman St.
*Whittaker, W. H., & Co., 252 Front St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.

Fluorescein

Cal., San Francisco
California Analine & Chemical Co., 33 Clementina St.

Formaldehyde

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
England, Darlington
Parkin, Ness & Co., Quebec St.
England, London
American Commerce Co., Ltd., The, 19 St. Bride St.
Ill., Chicago
Central Commercial Co.
N. Y., New York City
*Campbell, C. W., 11 Cliff St.
Cooper & Co., Charles, 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
Eimer & Amend, 205–211 Third Ave.
*Fries & Bro., 92 Reade St.
*Fuerst Bros. & Co., 2 Stone St.
Heyden Chemical Works, 135 William St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*Nitrate Agencies Co., 102 Pearl St.
Perth Amboy Chemical Works, 100 William St.
*Peters, White Co., 55 John St.
Roessler & Hasslacher Chemical Co., 100 William St.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Cleveland Cliffs Iron Co., Rockefeller Bldg.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Formaldehyde, Para

N. Y., New York City
Heyden Chemical Works, 135 William St.
*Klipstein & Co., A., 644 Greenwich St.
Ohio, Cleveland
Cleveland-Cliffs Iron Co., Rockefeller Bldg.

Formaldehyde, 40% Vol.

N. Y., New York City
*Heyden Chemical Works, 135 William St.
*Klipstein & Co., A., 644 Greenwich St.

Formaldehyde, Solidified

N. Y., New York City
Heyden Chemical Works, 135 William St.

Formamint

N. Y., New York City
Bauer Chemical Co., Inc., The, 30 Irving Place

Formate of Soda (*see Sodium Formate*)

Fuchsine Crystals

N. Y., New York City
*Dicks David & Broadfoot, Inc., 302 Broadway

Fuchsine Crystals, Conc.

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Fuchsine Powder, Conc.

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Fuller's Earth

Cal., Los Angeles
Pacific Mineral Product Co.
England, Smithy Bridge near Rochdale
Dearhead Chemical Co.
N. Y., New York City
*Dunn & Kruse, 53 Park Row
*Fuerst Bros. & Co., 2 Stone St.
*Hammill & Gillespie, 240 Front St.
Hillier's Son, R., & Co., 100 William St.
*Salomon, L. A., & Bro., 216 Pearl St.
*Waddell, R. J., & Co., 52 Beekman St.
*Whittaker, W. H., Co., 250 Front St.

Fungicides (*see Insecticides*)

Furamines, D-P-G.G-A-D.B.

N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.

Fuschine, Azo

N. Y., New York City
*Drug & Dyestuff Corp., 120 Broadway

Fustic Crystals

N. Y., New York City
*Sloan & Russell, Inc., 132 Nassau St.
N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine St.

Fustic Solid

N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine St.

Gall Nuts

N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.

Gelatine

Cal., San Francisco
California Glue Co., Fairfax Ave. and Rankin St.
Ill., Chicago
Armour & Co.
Mass., Boston
American Glue Co., 121 Beverly St.
Crystal Gelatine Co.
Mich., Detroit
Digestive Ferments Co.
Mo., St. Louis
Readron Glue Mfg. Co.
N. Y., Le Roy
Genesee Pure Food Co.
N. Y., New York City
American Agricultural Chemical Co., 2 Rector St.
Coignet Chemical Products Co., Inc., 17 State St.
Edgertyn Aniline Corp., 118 William St.
Eimer & Amend, 205–211 Third Ave.
*Hewitt & Co., C. B., 48 Beekman St.
McKesson & Robbins, Inc., 91 Fulton St.
National Gum & Mica Co., 59th St. and 11th Ave.
*Pfaltz & Bauer, Inc., 300 Pearl St.
*Puttmann, Paul, 55 John St.
*Rockhill & Vietor, 22 Cliff St.
*Stanley, Jordan & Co., 116 Broad St.
Pa., Philadelphia
Smith, Kline & French Co., 431 Arch St.

Gelatine, Vegetable

Md., Baltimore
Bloede Co., Victor G., Caton Ave., Station "D"

Gelseminine Hydrobromide

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Geraniol

N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Geranyl Acetate

N. Y., New York City
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Gilsonite

N. Y., New York City
*Lamson & Bro., John L., 80 Maiden Lane
Marden, Orth & Hastings Co., 61 Broadway
Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.

Gland Products

Mich., Detroit
Parke, Davis & Co.

Gland Substances

Ill., Chicago
Armour & Co.
Mich., Detroit
Digestive Ferments Co.
N. Y., New York City
Cudahy Packing Co.

Glauber's Salt (*see Sodium Sulphate*)

Glucose

England, Liverpool
Haddock, Parker & Co., 14 Chapel St.
N. Y., New York City
American Maize Products Co., 135 William St.
*Benham & Noyes, 10 Broadway
Corn Products Refining Co.
*Sealy, Thos., 142 Front St.
Hirsh, Hall & Co., 66 Broadway

Glues, Liquid, for technical purposes

N. Y., New York City
Adler Color & Chemical Works, 100 William St.
Arabol Mfg. Co., 100 William St.

Glycerine

Cal., Los Angeles
Los Angeles Soap Co., 633 E. 1st St.
Cal., San Francisco
Moore & Co., George A., 212 California St.
England, Smithy Bridge near Rochdale
Dearhead Chemical Co.
Ill., Chicago
Armour Soap Works
Cudahy Packing Co., 111 W. Monroe St.
Fairbanks Co., N. K.
Fuller-Morrisson Co., 310 W. Washington St.

Glycerine—*cont.*

Ill., Chicago—cont.
Kirk & Co., J. S., 106 E. Austin Ave.
Swift & Co., Union Stock Yards
Wilson & Co.
Kan., Kansas City
Peet Bros. Mfg. Co.
Md., Baltimore
McCormick & Co., McCormick Bldg.
*Walter Co., Edw. J., 803 American Bldg.
Mass., Boston
*King & Co., E. & F., 367 Atlantic Ave.
Mass., Cambridge
Lever Bros.
Mass., Lynn
Marsh Co., George E.
N. J., Jersey City
Colgate & Co.
N. Y., Brooklyn
*Marx & Rawolle, Inc.
N. Y., Buffalo
Hoefner & Son, A., 160 Van Rensselaer St.
Larkin Co.
Lautz Bros. & Co., 44 Hanover St.
N. Y., Kingston
Nitro Powder Co.
N. Y., New York City
*American Trading Co., 25 Broad St.
Babbitt, B. T., 11 Broadway
Eimer & Amend, 205–211 Third Ave.
*Freeman & Co., R. B., 92 Wall St.
*Fuerst Bros. & Co., 2 Stone St.
*Fuller & Co., Ralph L., 4 Rector St.
*Garrigues Co., Charles F., 80 Maiden Lane
Gaston, Williams & Wigmore, Inc., 35–39 Broadway
*Geisenheimer & Co., 134 Cedar St.
*Innis, Speiden & Co., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
*Magnus, Maybee & Reynard, 257 Pearl St.
Marden, Orth & Hastings Co., Inc., 61 Broadway
*Marx & Rawolle, 100 William St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Southern Cotton Oil Co., 120 Broadway
White Tar Co., Cliff and John Sts.
N. Y., Syracuse
Will & Baumer Co.
Ohio, Celina
Celina Stearic Acid Co.
Ohio, Cincinnati
Emery Candle Co., 44 Walnut St.
Globe Soap Co., United Bank Bldg.
Moore Oil Co., York and McLean Ave.
Proctor & Gamble Co., Gwynn Bldg.
Ohio, Cleveland
Grasselli Chemical Co.
*Harshaw, Fuller & Goodwin Co.
Ohio, St. Bernard
Werk Co., The M.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Glycerine, C. P.

Ill., Chicago
Swift & Co., Union Stock Yards
Md., Baltimore
Virginia Red Oil Products Corp.
N. J., Jersey City
Colgate & Co.
N. Y., New York City
Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
*Marx & Rawolle, Inc., 100 William St.
Ohio, Cincinnati
Proctor & Gamble Co., Gwynne Bldg.

Glycerine, Crude

Ill., Chicago
Wilson & Co.
Md., Baltimore
Virginia Red Oil Products Corp.
Mass., Cambridge
Lever Bros.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
Ohio, Cincinnati
Joslin-Schmidt Co., 3223 Spring Grove Ave.
Ohio, St. Bernard
Werk Co., The M., Murray Ave.

Glycerine, Dynamite

Md., Baltimore
Virginia Red Oil Products Corp.
N. J., Jersey City
Colgate & Co.
N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway
*Marx & Rawolle, 100 William St.

Glycerine, High Gravity

Ohio, Cincinnati
Proctor & Gamble Co., Gwynne Bldg.

Glycerine, Refined

N. Y., New York City
Marden, Orth & Hastings Co., Inc., 61 Broadway
Ohio, St. Barnard
Werk Co., The M., Murray Ave.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Glycerine, Substitute

England, Smithy Bridge near Rochdale
Dearhead Chemical Co.

Glycerine, Yellow Distilled

Ohio, Cincinnati
Proctor & Gamble Co., Gwynne Bldg.

Glycerophosphates

Mo., St. Louis
Monsanto Chemical Works, 1800 S. 2d St.

Glycerophosphate of Calcium

(*see Calcium Glycerophate*)

Gold

Ill., Chicago
Goldsmith Bros., Smelting & Refining Co.
N. J., Irvington
Irvington Smelting & Refining Co.
N. J., Maurer
American Smelting & Refining Co.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
Platt Co., Charles S.

Gold Chloride

Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
Merck & Co., 45 Park Place
Powers-Weightman-Rosengarten Co.
Pa., Philadelphia
Phillips & Jacobs, 622 Race St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Gold Oxide

N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Gold Salts (*see Specific Headings*)

Graphite

Cal., San Francisco
Dill-Crosett, Inc., 235 Pine St.
Ill., Chicago
Obermayer Co., S., 2563 W. 18th St.
Mich., Saginaw
United States Graphite Co.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Baker & Bro., H. J., 100 William St.
*Chrystal, Charles B., 11 Cliff St.
Crooks & Co., Robert, 135 Front St.
*Dunn & Kruse, 53 Park Row
*Fuerst Bros., & Co., 2 Stone St.
*Patterson, Boardman & Knapp, 10 Bridge St.
*Waddell & Co., R. J., 56 Beekman St.
*Whittaker Co., W. H., 250 Front St.
N. Y., Niagara Falls
International Acheson Graphite Co.
Ohio, Columbus
Aetna Graphite Co.

Graphite, Boiler

Mich., Saginaw
United States Graphite Co.
Mo., St. Louis
Arrow Boiler Compound Co., 703–715 Roe Bldg.
N. Y., New York City
Kelly Graphite Mills, 534 W. 22d St.
Ohio, Cleveland
Columbia Graphite Co.
Pa., Philadelphia
American Graphite Co. of Philadelphia, Land Title Bldg.

Graphite, Flake (Lubricating)

Mich., Saginaw
United States Graphite Co.
N. Y., Asbury
Asbury Graphite Mills
N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.

Gray Brown

Mich., Holland
Holland Aniline Co.

Grease, for Technical Purposes

England, Liverpool
Haddock Parker & Co., 14 Chapel St.
Ill., Chicago
Dearborn Chemical Co., McCormick Bldg.
Stuart & Co., Inc., D. A., 29 S. La Salle St.
Wilson & Co.
Md., Baltimore
Robinson & Son Co., Wm. C., 32 South St.

Grease, for Technical Purposes —*cont.*

Mass., Boston
American Glue Co., 121 Beverly St.
Eagle Oil & Supply Co., 44–46 India Square
Mich., Detroit
White Star Refining Co., 614–648 Avery Ave.
Minn., Minneapolis
Van Tilburg Oil Co., The
Neb., Omaha
Cudahy Packing Co.
N. Y., New York City
Albany Lubricating Co., 708–710 Washington St.
Arabol Mfg. Co., 100 William St.
Borne-Scrymser Co., 80 South St.
*Marell Chemical Co., Inc., 25 Beaver St.
New York & New Jersey Lubricant Co., 165 Broadway
Platt & Washburn Refining Co., 11 Broadway
Standard Oil Co. of New York, 26 Broadway
Texas Co., 17 Battery Place
Wolverine Lubricants Co. of New York, 80 Broad St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cincinnati
Joslin-Schmidt Co., 3223 Spring Grove Ave.
Moore Oil Co., York and McLean Aves.
Pa., Philadelphia
Baugh & Sons Co.
Crew Levick Co.
Keystone Lubricating Co.
Philadelphia Grease Mfg. Co., 848–850 S. Swanson St.
Royersford Foundry & Machine Co., 52 N. 5th St.
R. I., Providence
Harris Oil Co., A. W., 326 S. Water St.

Grease, Graphite

N. Y., New York City
Kelly Graphite Mills, 534 W. 22d St.

Grease, Soluble

Mass., Atlantic
*Bosson & Lane

Green, Benzo

N. Y., Cook's Falls
Beaverkill Color & Chemical Co., The

Greens, Chrome Bottom

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Green, Chrome, C. P.

N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
N. Y., Glen Falls
Imperial Color Works, Inc.

Green, Direct

N. Y., New York City
*Drug & Dyestuff Corp., 120 Broadway
Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Green, Naphthol

N. Y., New York City
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Green, Victoria, Conc.

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Green, Wool S.

N. Y., New York City
Organic Products Corp., 469 State St.

Guaiacol Crystals

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Heyden Chemical Works, 135 William St.

Guaiacol Liquid

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Heyden Chemical Works, 135 William St.

Gums (all kinds)

England, Manchester
*Willcocks & Co., Ltd., H. S., 5, Beaver St.
Mo., St. Louis
Reardon Glue Mfg. Co.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.
N. J., Passaic
*Wolf, Jacques & Co.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
*Campbell & Co., John C.
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros. & Co., 2 Stone St.
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
*Innis, Speiden & Co., 46 Cliff St.

Gums (all kinds)—*cont.*

N. Y., New York City—cont.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
National Gum & Mica Co., 59th St. and 11th Ave.
*Salomon & Bro., L. A., 216 Pearl St.

Gum, Arabic

N. Y., New York City
Arabol Mfg. Co., 100 William St.
*Duche & Sons, T. M., 376 Greenwich St.
Edgertyn Aniline Corp., 118 William St.
*Fuller & Co., Ralph, 4 Rector St.
*Innis, Speiden & Co., 46 Cliff St.
McKesson & Robbins, Inc., 91 Fulton St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
National Gum & Mica Co., 59th St. and 11th Ave.
*Salomon & Bro., L. A., 216 Pearl St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Gum, Benzoin

N. Y., New York City
*Fuller & Co., Ralph L., 4 Rector St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Gum, Brazilian

N. Y., New York City
National Gum & Mica .Co., 59th St and 11th Ave.

Gum, Brightwood

N. Y., N w York City
Na ional Gum & Mica Co., 59th St. and 11th Ave.

Gum, British (*see also Dextrine*)

Md., Baltimore
Bloede Co., Victor G., Station "D" Caton Ave.
N. Y., New York City
Corn Products Refining Co., 17 Battery Place
National Gum & Mica Co., 59th St. and 11th Ave.

Gum, Camphor

Cal., San Francisco
*Dill-Crossett, Inc., Postal Telegraph Bldg.
Mass., Boston
American Camphor Refining Co., 14 Fulton St.
N. Y., New York City
*Barrett Co., 17 Battery Place
*Campbell, C. W., 11 Cliff St.
*Fuller & Co., Ralph L., 4 Rector St.
*Lehn & Fink, 120 William St.
*Merck & Co., 45 Park Place
*Mitsui & Co., 25 Madison Ave.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*Pfizer & Co., Charles, 81 Maiden Lane
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Gum, Congo

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
National Gum & Mica Co., 59th St. and 11th Ave.

Gum, Copal

Cal., San Francisco
Dill-Crossett, Inc., Postal Telegraph Bldg.
Ill., Chicago
Standard Asphalt & Rubber Co., 137 S. La Salle St.
N. Y., Brooklyn
Zobel & Co., E.
N. Y., New York City
*Berry Bros., 262 Pearl St.
*Fuller & Co., Ralph L., 4 Rector St.
*Gillespie & Sons, L. C., 6 Fletcher St.
*Gravenhorst & Co., 94 Wall St.
*Kasebier-Chatfield Shellac Co., 175 Pearl St.
*Klipstein & Co., A., 644 Greenwich St.
*Patterson, Boardman & Knapp, 10 Bridge St.
*Pauli, Hermann, 80 Pine St.
Rogers-Pratt Shellac Co., 79 Water St.
*Scheel, William H., 159 Maiden Lane
Pa., Philadelphia
*Meyer & Sons, J., 480 Bourse Bldg.

Gum, Damar

N. Y., New York City
*Fuller & Co., Ralph L., 4 Rector St.
*Katzenbach & Bullock Co., Inc., William and John Sts.
*Klipstein & Co., A., 644 Greenwich St.

Gum, Gambier

N. Y., New York City
*Kuller & Co., Ralph L., 4 Rector St.
*Klipstein & Co., A., 644 Greenwich. St.

Gum, Kauri

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.

Gum, Mastic

N. Y., New York City
*Fuller & Co., Ralph L., 4 Rector St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Gum, Myrrh

N. Y., New York City
*Fuller & Co., Ralph L., 4 Rector St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Gum, Pontianak

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Gum, Red

N. Y., New York City
*Chemical Importing & Mfg. Co., 90 West St.

Gum, Rosin

Ohio, Cincinnati
*Winkler & Bros. Co., Isaac, 804 First National Bank Bldg.

Gum, Sandarac

N. Y., New York City
*Fuller & Co., Ralph L., 4 Rector St.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Gum, Senegal

N. Y., New York City
*Fuller & Co., Ralph L., 4 Rector St.
*Klipstein & Co., A., 644 Greenwich St.
National Gum & Mica Co., 59th St. and 11th Ave.

Gum, Shellac

Ill., Chicago
Barrett & Co., M. L., 333 W. Lake St.
Mich., Detroit
Berry Bros., Leib and Wright Sts.
N. Y., New York City
*Marx & Rawolle, 100 William St.

Gum, Textile, Stiffening

N. Y., New York City
Corn Products Refining Co., 17 Battery Place
*Fuller & Co., Ralph L., 4 Rector St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
National Gum & Mica Co., 59th St. and 11th Ave.

Gum, Tragacanth

Ill., Chicago
Barrett & Co., M. L., 219 Lake St.
N. J., Jersey City
Seydel Mfg. Co., 86 Forrest St.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
*Fuller & Co., Ralph L., 4 Rector St.
*Innis, Speiden & Co., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
National Gum & Mica Co., 59th St. and 11th Ave.
Pa., Hanover
Acme Extract & Chemical Co.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Gum, Varnish (*see Gum, Copal*)

Gum, Victor

Md., Baltimore
Bloede Co., Victor G., Caton Ave.

Gum, Wood Veneer

Md., Baltimore
Bloede Co., Victor G., Caton Ave.

Gum, Zambesi

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Gum, Zanzibar

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
*Scheel, Wm. H., 159 Maiden Lane

Gymene

N. Y., New York City
Industrial Chemical Co., 200 Fifth Ave.

Gypsum (*see Calcium Sulphate*)

Haemateine

N. Y., New York City
*Bischoff & Co., Inc., C., 451 Washington St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

Hardening Compound, Surface

Pa., Philadelphia
Houghton & Co., E. F., 240 Somerset St.

Heliotropin

N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.
Bush & Co., W. J., 100 William St.

Hematin Crystals

N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine St.
N. Y., Glen Falls
Imperial Dyewood Co., Inc.
N. Y., Long Island City
United States Dye Extracts Co., Inc.
N. Y., New York City
American Dyewood Co., 80 Maiden Lane
Chemical Co. of America, 28 Platt St.
Edgertyn Aniline Corp., 118 William St.
Jamaica Dyewood & Chemical Co., 50 Church St.
National Gum & Mica Co., 59th St. and 11th Ave.
*Nitrate Agencies Co., 102 Pearl St.
*Sloan & Russell, Inc., 132 Nassau St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co.
England, Manchester
Robinson & Co., H. F., Newton Heath
*Willcocks & Co., Ltd., H. S., 5, Beaver St.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Square

Hematin Extract (*see Extract, Hematin*)

Hematin Liquid (*see Extract, Hematin*)

Hematin, Paste (*see also Extract, Hematine*)

England, Manchester
*Willcocks & Co., Ltd., H. S., 5, Beaver St.
N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine St.

Hematin, Solid

N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine St.

Hexachlorethane

Mich., Midland
Dow Chemical Co.

Hexamethylenamine

Ohio, Cleveland
Cleveland-Cliffs Iron Co., Rockefeller Bldg.

Hexamethylenetetramine

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Heyden Chemical Works, 135 William St.
Hoffman-La Roche Chemical Works, 440 Washington St.
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 Maiden Lane
*Wood, Inc., J. Early, 21 Platt St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Hydrastine

Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.

Hydrochinone (*see Hydroquinone*)

Hydrogen

Ill., Chicago
National Ox-Hydric Co
Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Air Reduction Sales Co., 120 Broadway
International Oxygen Co.
*Palo Co., 90 Maiden Lane
Standard Oxygen Co., 216 E. 42d St.
Ohio, Cleveland
Ohio Chemical & Mfg. Co., 1177 Marquette Road
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.

Hydrogen Dioxide (*see Hydrogen Peroxide*)

Hydrogen Gas

Ill., Chicago
Burdett Oxygen Co.
Minn., Minneapolis
Northern Welding Co.
N. Y., New York City
Air Reduction Sales Co., 120 Broadway
International Oxygen Co., 115 Broadway
Linde Air Products Co., Forty-Second St. Bldg.
Palo Co., 90-92 Maiden Lane
Roessler & Hasslacker Chemical Co., 100 William St.
Ohio, Cincinnati
Natural Oxygen Co.

Hydrogen Gas—*cont.*

Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.

Hydrogen Peroxide

Colo., Denver
Chemical Products Co.
Mich., Detroit
Parke, Davis & Co.
Mo., St. Louis
Mallinckrodt Chemical Works
N. Y., Long Island City
American Druggists Syndicate
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
McKesson & Robbins, 91 Fulton St.
Merck & Co., 45 Park Place
Oakland Chemical Co., 10 Astor Place
Roessler & Hasslacher Chemical Co., 100 William St.
*Wood, Inc., J. Early, 21 Platt St.
Pa., Philadelphia
Smith, Kline & French Co., 431 Arch St.

Hydrone

N. Y., New York City
Roessler & Hasslacher Chemical Co., 100 William St.

Hydroquinone

England, London
American Commerce Co., Ltd., The, 19 St. Bride St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. J., Bound Brook
American Chemical Products Co.
N. J., Jersey City
Seydel Mfg. Co.
N. Y., Hastings-on-Hudson
*Zinsser & Co.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
Cooper & Co., Charles, 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
Eissing Chemical Co., 225 Fifth Ave.
Marden, Orth & Hastings Co., 61 Broadway
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*Wood, Inc., J. Early, 21 Platt St.

Hypernic, Extract (*see also Extract Hypernic*)

N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway

Hypochlorite of Lime (*see Calcium Hypochlorite, Bleach and Chloride of Lime*)

Hydrosulphite

N. J., Passaic
*Wolf, Jacques & Co.
N. Y., New York City
Chemical Co. of America, 28 Platt St.

Ichthynat

N. Y., New York City
Heyden Chemical Works, 135 William St.

Ichthyol

N. Y., New York City
Merck & Co., 45 Park Place
National Gum & Mica Co., 59th St. and 11th Ave.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Ichthyolum

N. Y., New York City
Takamine Laboratory, Inc.

Indigo

England, Manchester
*Willcocks & Co., Ltd., H. S., 5, Beaver St.
Mass., Boston
*Cronkhite & Co., L. W.
United Indigo & Chemical Co., 176 Federal St.
Mich., Midland
Dow Chemical Co.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
*Bischoff & Co., Inc., C., 451 Washington St.
*Farbwerke-Hoechst Co., 122 Hudson St.
*Freeman & Co., R. B., 96 Wall St.
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Co., 61 Broadway
*Mortimer & Co., 68 Beaver St.
*Lengfelt & Co., F. H., 100 Maiden Lane
*Riker, J. L., & D. S., 80 Maiden Lane
Zobel Co., Inc., Ernest, 38 Water St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
Vt., Burlington
Wells & Richardson Co.

Indigo, Synthetic

Mich., Midland
Dow Chemical Co.
N. Y., New York City
*Geisenheimer & Co., 134 Cedar St.
Marden, Orth & Hastings Co., 61 Broadway

Indigotine

Mass., Boston
Avery Chemical Co., 88 Broad St.
United Indigo & Chemical Co., 176 Federal St.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
Cassella Color Co., 182 Front St.
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.

Indulin

England, Lancashire, Edenfield
Sharp, Ltd., J. B. & W. R.
Mich., Midland
Dow Chemical Co.
R. I., Providence
Industrial Chemical Co.

Infusorial Earth (*see Clays*)

N. Y., New York City
Celite Products Co., 11 Broadway
*Chrystal, Chas., B., 11 Cliff St.
*Dunn & Kruse, 53 Park Row
*Hammill & Gillespie, 240 Front St.
*Salomon & Bro., L. A., 216 Pearl St.
*Whittaker, W. H., Co., 250 Front St.

Inks

D. C., Washington
Lamb & Tilden, 725 13th St., N. W.
N. Y., New York City
*Binney & Smith Co., 81 Fulton St.
Ohio, Cincinnati
Ault & Wiborg

Inks, Printing

Ga., Savannah
Southern Oil & Chemical Co.

Intermediates (*see also specific headings*)

Cal., West Berkeley
California Aniline & Chemical Co.
Cata ytic Chemical Co., 3d and Bancroft Sts.
Conn., Naugatuck
Naugatuck Chemical Co.
Conn., Stamford
American Synthetic Color Co.
Del., Wilmington
DuPont de Nemours & Co., E. I.
Fla., Jacksonville
Jacksonville Chemical Mfg. Co.
Ill., Chicago
Sherwin-Williams Co., The, Pullman Station
Western Aniline Products Co., 1160 Old Colony Bldg.
Ill., Quincy
Monroe Color & Chemical Co.
Ind., Bristol
Upton Bros.
Mass., Boston
Atlantic Dyestuff Co., 88 Ames Bldg.
Merrimac Chemical Co., 41 Central St.
Mass., South Seekonk
Arnold & Marshall Co.
Mich., Detroit
Detroit Organic Chemical Co., 1417 Dime Bank Bldg.
Mich., Holland
Holland Aniline Co.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Monsanto Chemical Works, 1800 S. 2d St.
N. J., Elizabeth
Bayway Chemical Co., Bayway
Midvale Chemical Co.
N. J., Jersey City
Seydel Mfg. Co., 86 Forrest St.
N. J., Linden
Aniline Products Co.
N. J., Matawan
Synthetic Color Co.
N. J., Metuchen
Acme Dye & Chemical Co., Durham Ave.
N. J., Newark
Central Dyestuff & Chemical Co.
N. J., North Newark
Verona Chemical Co.
N. J., Orange
Edison, Inc., Thomas A.
N. J., Perth Amboy
United Dyes Corp., Front St.
N. Y., Brooklyn
Beckers Aniline & Chemical Works, Inc., U.
Williamsburg Chemical Co., Inc., 230 Morgan Ave.
N. Y., Kingston
Nitrated Chemical Co.
N. Y., New York City
Amalgamated Dyestuff & Chemical Work, Inc., 75 Hudson St.
American Aniline Products, Inc., 15 E. 12th St.
American Color Mfg. Co., 98 Park Place
American Synthetic Dyes, Inc., 61 Broad St.
Barrett Co., The, 17 Battery Place

Intermediates—*cont.*

N. Y., New York City—cont.
Bayer Co., Inc., The, 117 Hudson St.
Benzol Products Co., The, 25 Broad St.
Bound Brook Chemical Corp., 82 Beaver St.
Calco Chemical Co., 44th floor, Woolworth Bldg.
Chemical Co. of America, Inc., 28 Platt St.
David Chemical Co., 120 Broadway
DuPont Chemical Works, 120 Broadway
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
*Franco-Swiss Dyes, Inc., 61 Broadway
General Chemical Co., 25 Broad St.
*Hemingway, Inc., Frank L., 82 Beaver St.
Hooker Electrochemical Co., 40 Wall St.
*Klipstein & Sons Co., E. C., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
May & Co., Inc., Frank L., 99 John St.
Merck & Co., 45 Park Place
Middlesex Aniline & Chemical Co., Inc., 149 Broadway
National Aniline & Chemical Co., Inc., 244 Madison Ave.
New York Color & Chemical Co., Inc., 212 Pearl St.
*Segal & Co., Inc., George H., 95 William St.
Semet-Solvay Co. of New York, 42d St. Bldg.
Transatlantic Chemical Corp., 80 Wall St.

N. Y., Schenectady
Organic Products Corp.

Ohio, Amherst
Briggs Chemical Works

Ohio, Cincinnati
Ault & Wiborg

Ohio, Marietta
Obex Co., The

Ohio, Sandusky
Hord Color Products Co., 424 E. Market St.

Pa., Fort Washington
Columbia Chemical Constructive Co.

Pa., Philadelphia
Cambria Steel Co., Widener Bldg.

R. I., Providence
Agawan Chemical Works, 531 Grosvenor Bldg.
Blackstone Chemical Works, 531 Grosvenor Bldg.
Industrial Chemical Co., P. O. Box 490
Manville Co., The

Wash., Seattle
West Coast Chemical Co., 6961 Woodlawn Ave.

Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Iodine

Cal., San Francisco
Rogers Chemical Co., R. R., 527–536 Commercial St.

Mich., Midland
Dow Chemical Co.

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Eimer & Amend, 205–211 Third Ave.
McKesson & Robbins, 91 Fulton St.
Squibb & Sons, E. R., 80 Beekman St.
Suziki & Co., S., 13 Park Row

Pa., Easton
Baker & Adamson Chemical Co.

Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Iodine Salts

Cal., Chula Vista
Hercules Powder Co.

Mich., Midland
Dow Chemical Co.

N. Y., Albany
Albany Chemical Co.

N. Y., New York City
Eimer & Amend, 205 Third Ave.
Hoffman-LaRoche Chemical Works, 444 Washington St.
*Lathrop & Co., H. R., Inc., 200 Water St.
Lehn & Fink, Inc., 120 William St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
New York Quinine & Chemical Works, 114 William St.

Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Smith, Kline & French Co., 431 Arch St.

Iodoform

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
Mallinckrodt Chemical Works, 3600 N. 2d St.

N. Y., New York City
Eimer & Amend, 205–211 Third Ave.
Merck & Co., 45 Park Place
Squibb, R. E., & Sons, 80 Beekman St.

Iodoform—*cont.*

Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Ipecac

N. Y., New York City
*Van Brunt & Co., Inc., J. A., 114 John St.

Japans

N. J., Newark
Murphy Varnish Co., Chestnut and McWhorter Sts.
N. Y., New York City
Berry Bros., 262 Pearl St.
Calman, Emil & Co., 100 William St.

Kalsomines

Mo., St. Louis
Reardon Glue Mfg. Co.

Kaolin

Cal., Los Angeles
Pacific Mineral Products Co.
Del., Newark
Peach Kaolin Co.
Ga., Macon
Georgia Kaolin Co.
Ga., Savannah
Savannah Kaolin Co.
N. J., Trenton
Golding Sons & Co., S.
N. Y., New York City
*Alexander & Co., C. S., Inc., 61 Broadway
Cooper & Co., Charles, 194 Worth St.
*Dunn & Kruse, 53 Park Row
Franco-American Chemical Co., 8 Gold St.
*Fuller & Co., Ralph L., 4 Rector St.
*Hammill & Gillespie, 240 Front St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
*Salomon & Bro., L. A., 216 Pearl St.
*Whittaker Co., W. H., 250 Front St.
N. Y., Troy
Ostrander Fire Brick Co.
N. C., Dillsboro
Harris Clay Co.
Pa., Philadelphia
Paxson Co., J. W., 1022 N. Delaware Ave.
Philadelphia Clay Co., 1316 Commonwealth Ave.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Kapok

N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.

Ketones

N. Y., Albany
Albany Chemical Co.
N. Y., New York City
*Hemingway, Inc., Frank, 115 Broadway
Industrial Chemical Co., Fifth Ave. Bldg.
U. S. Industrial Alcohol Co., 27 William St.
Pa., East Smethport
Norwich Chemical Co.

Keton, Violet

N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.

Koreon

N. Y., New York City
Mutual Chemical Co. of America, 55 John St.

Lacquers

Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22d St.
Mass., Boston
Chemical Products Co., 93 Broad St.
N. J., Carlstadt
Franco-American Chemical Co.
N. Y., New York City
Celluloid Zapon Co., 200 Fifth Ave.
Cooper & Co., Charles, 194 Worth St.
Du Pont Chemical Works, 120 Broadway
General Bakelite Co., 2 Rector St.
Kalbfleisch Corp., 31 Union Square, W.
National Gum & Mica Co., 59th St. and 11th Ave.

Lacquers, Cellulose Acetate

N. Y., Rosebank
Austen, Perry, Mfg. Co.

Lacquers, Metal

Del., Wilmington
Hercules Powder Co., 10th and Market Sts.
N. J., Wallington
Anderson Chemical Co.
N. Y., New York City
Du Pont Chemical Works, 120 Broadway

Lacquers, Nitrocellulose

N. Y., Rosebank
Austen, Perry, Mfg. Co.

Lacquers, Pyralin

N. Y., New York City
Du Pont Chemical Works, 120 Broadway

Lacquers, Pyroxylin

N. Y., New York City
Arlington Co., The, 725-727 Broadway

Lacquers, Wood

N. Y., New York City
Du Pont Chemical Works, 120 Broadway

Lakes (*see also Dyestuffs*)

N. Y., Glen Falls
Imperial Colors Works, Inc.
N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 31st St.
Heller & Merz Co., 503 Hudson St.
Marden, Orth & Hastings Co., Inc., 61 Broadway.
National Aniline & Chemical Co., 244 Madison Ave.
National Gum & Mica Co., 59th St. and 11th Ave.
*Waldo, E. M. & F., 11 Broadway
Zobel Color Works, Inc.,
Ohio, Cincinnati
Ault & Wiborg Co.

Lakes, Blue

N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
N. Y., Glen Falls
Imperial Color Works, Inc.

Lakes, Green

N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.

Lakes, Lithol Red

N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.

Lakes, Madder

N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.

Lakes, Process Red

N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.

Lakes, Purple

N. Y., New York City
Hellenic Chemical & Color Co., Inc. 427 W. 13th St.

Lakes, Red

N. Y., New York City
Hellenic Chemical & Color Co., Inc. 427 W. 13th St.

Lakes, Scarlet

N. Y., Glen Falls
Imperial Color Works, Inc.

Lakes, Violet

N. Y., Glen Falls
Imperial Color Works, Inc.

Lakes, Yellow

N. Y., Glen Falls
Imperial Color Works, Inc.
N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.

Lamp Black

Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
N. Y., New York City
*Binney & Smith Co., 81 Fulton St.
Harrison Works, 80 Maiden Lane
National Gum & Mica Co., 59th St. and 11th Ave.
*Osborn Co., C. J., 132 Nassau St.
*Smith & Co., J. Lee, 23 Jacob St.
*Wilckes-Martin-Wilckes Co., 135 William St.
N. Y., Troy
Eddy's Son, Titus

Lanolin

Cal., Los Angeles
Sirch Electrical & Testing Laboratories
N. Y., New York City
Hoffmann-LaRoche Chemical Works, 440 Washington St.
Marden, Orth & Hastings Co., Inc., 61 Broadway

Larch, Extract (*see Extract, Larch*)

Lead (*Electrolytic*)

N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Smelting & Refining Co., 120 Broadway
U. S. Smelting Co., Inc., 120 Broadway

Lead Acetate

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Selby Smelting & Lead Co., Merchants' Exchange Bldg.
Ind., Greencastle
Greencastle Zinc & Lead Mining Co.

Lead Acetate—*cont.*

Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
Merrimac Chemical Co., 33 Broad St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Greene St.
N. Y., New York City
*Bredt & Co., F., 240 Water St.
Edgertyn Aniline Corp., 118 William St.
Eimer & Amend, 205–211 Third Ave.
General Chemical Co., 25 Broad St.
*Harshaw, Fuller & Goodwin Co., 100 William St.
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Merck & Co., 45 Park Place
National Lead Co., 111 Broadway
Roessler & Hasslacher Co., 100 William St.
*Scheel, William H., 159 Maiden Lane
*Van Brunt & Co., Inc., J. A., 114 John St.
White Tar Co., 6 Cliff St.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road
*Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711–719 Forbes St.
R. I., Providence
*Lewis, John D.
Wis., Madison
Cleveland Mining Co.

Lead Antimonial

Cal., San Francisco
Selby Smelting & Lead Co., Merchants Exchange Bldg.
Ill., Chicago
Great Western Smelting & Refining Co., 41st and Wallace Sts.
Mich., Detroit
Michigan Smelting & Refining Co.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
American Steel Co., 61 Broadway
*Beer, Sondheimer & Co., 61 Broadway.
*Leavitt & Co., C. W., 36 Church St.
Nassau Smelting & Refining Works 607 W. 29th St.
United States Smelting Co., Inc., 120 Broadway
*Seligmann, A., 165 Broadway
Pa., Philadelphia
Ajax Metal Co., 48 Richmond St.

Lead Arsenate

Mass., Boston
Merrimac Chemical Co., 33 Broad St.
Mass., Leominster
Danfourth Chemical Co., Willard St.
Mich., Grand Rapids
Imperial Chemical Co.
Carpenter-Udell Co.
Mich., Midland
*M*Dow Chemical Co.
o., St. Louis
Commercial Acid Co., 1906 Boatman's Bank Bldg.
Lambert Chemical Co., Railway Exchange Bldg.
N. J., Camden
Mechling Bros. Mfg. Co.
N. J., Jersey City
Interstate Chemical Co., 667 Garfield Ave.
N. J., Newark
Sherwin-Williams Co., Lister and Brown Sts.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Laranburg, Fred. L., 100 William St.
*Leggett & Bro., 301 Pearl St.
*Nitrate Agencies Co., 102 Pearl St.
Vreeland Chemical Co., 50 Church St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Wis., Milwaukee
Corona Chemical Co.

Lead, Black (*see Graphite*)

Lead Borate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Lead, Bordo

N. J., Jersey City
Interstate Chemical Co., 12–20 Bayview Ave.

Lead Carbonate, Basic

N. Y., New York City
Harrison Works, 80 Maiden Lane
National Lead Co., 111 Broadway

Lead, Chloride
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Lead Chromate (*see Chrome Yellow*)

Lead Hyposulphite
N. Y., New York City
*Doggett, Stanley, John and Cliff Sts.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.

Lead Linoleate
N. Y., New York City
*Harshaw, Fuller & Goodwin Co., 100 William St.
*Sloan & Russell, Inc., 132 Nassau St.

Lead Nitrate
N. Y., New York City
Cooper, Chas., Co., 194 Worth St.
*Ketchum & Co., 65 Fulton St.
*Tennant Sons & Co., C., 100 William St.
*Klipstein & Co., A., 644 Greenwich St.
*Van Brunt & Co., Inc., J. A., 114 John St.
*Squibb & Sons, E. R., 80 Beekman St.
Ohio, Cleveland
Grasselli Chemical Co.
*Harshaw, Fuller & Goodwin Co.

Lead Oleate
N. J., Harrison
National Oil Products Co., Essex and First Sts.

Lead Oxide
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
N. Y., New York City
*Coulston & Co., J. W., 80 Maiden Lane
Eagle Picher Lead Co., 100 William St.
Edgertyn Aniline Corp., 118 William St.
*Gabriel & Schall, 205 Pearl St.
Harrison Works, 50 Maiden Lane.
Independent Chemical Co., 72 Front St.
National Lead Co., 111 Broadway
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., The, Electric Bldg.
Pa., Pittsburgh
National Oil & Lead Co. of Pa., Commonwealth Bldg.

Lead Palmitate
N. J., Harrison
National Oil Products Co., Essex and First Sts.

Lead Peroxide
N. Y., New York City
*Sloan & Russell, Inc., 132 Nassau St.

Lead, Red
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
National Lead Co., 111 Broadway

Lead Resinate
N. J., Harrison
National Oil Products Co., Essex and First Sts.
N. Y., New York City
*Harshaw, Fuller & Goodwin Co., 100 William St.
*Sloan & Russell, Inc., 132 Nassau St.

Lead Resinate, Precipitated and fused
Pa., Philadelphia
*Meyer & Sons, J., 480 Bourse Bldg.

Lead Salts (*see specific headings*)

Lead, Sheet
N. Y., New York City
National Lead Co.
United Lead Co., 111 Broadway

Lead, Soft and Hard
Ill., Chicago
Raymond Lead Co., 735 S. Washtenaw Ave.

Lead Stearate
N. J., Harrison
National Oil Products Co., Essex and First Sts.

Lead Sulphate
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Eagle Picher Lead Co., 100 William St.
General Chemical Co., 25 Broad St.
National Lead Co., 111 Broadway
*Scheel, Wm. H., 159 Maiden Lane
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., 115 Chestnut St.

Lead Sulphate, Basic
N. Y., New York City
National Lead Co., 111 Broadway

Lead, White (*see Lead Carbonate, Basic*)

Lead, White Sugar of
England, Stockport
Cornbrook Chemical Co., Ltd.

Leather Solutions
N. J., Carlstadt
Franco-American Chemical Co.
N. J., Wallington
Anderson Chemical Co.
N. Y., New York City
Du Pont Chemical Works, 120 Broadway

Leather Solutions, Patent
N. Y., New York City
Du Pont Chemical Works, 120 Broadway

Leather Solutions, Split
N. Y., New York City
Du Pont Chemical Works, 120 Broadway

Leather Substitute Solutions
N. Y., New York City
Du Pont Chemical Works, 120 Broadway

Lecithin
Ill Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Licorice, Root, Paste
N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
*Freeman & Co., R. B., 96 Wall St.

Lime Acetate (*see also Calcium Acetate*)
Fla., Jacksonville
Florida Wood Products Co.
Md., Baltimore
*Walter Co., Edw. J., 803 American Bldg.
N. Y., New York City
*Nitrate Agencies Co., 102 Pearl St.
N. Y., Olean
Lackawanna Chemical Co.

Lime, Agricultural
N. Y., New York City
Industrial Chemical Co., 200 Fifth Ave.

Lime Nitrate (*see also Calcium Nitrate*)
N. Y., New York City
*Tennant, C., Sons & Co., 100 William St.
Pa., Pittsburgh
Macbeth-Evans Glass Co.

Lime Sulphur Solution
Mich., Midland
Dow Chemical Co.

Limestone, Ground
Cal., Highland
Thompson, R. S., & Son
N. Y., Syracuse
Solvay Process Co.

Linalyl Acetate
N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.

Linoleates
N. Y., Brooklyn
Moller & Schumann Co., Marcy and Flushing Ave.

Linoleates, Calcium
Pa., Philadelphia
*Meyer & Sons, J., 480 Bourse Bldg.

Linoleates, Lead
Pa., Philadelphia
*Meyer & Sons, J., 480 Bourse Bldg.

Liquid Aubepine (*see Aubepine, Liquid*)

Liquids, Bacteriological Cultures
N. Y., New York City
Fairchild Bros. & Foster, 74 Laight St.

Liquid Air
Canada, Quebec, Maisonneuve
L'Air Liquid Societé

Liquors, Phosphoric Acid
R. I., Providence
Rumford Chemical Works

Litharge (*see Lead Oxide*)

Litharge, Assayers, free from Silver
Ill., Chicago
Daigger & Co., A., 52–56 W. Kinzie St.
N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway
National Lead Co., 111 Broadway

Litharge, Flake and Powdered
N. Y., New York City
Eagle Pilcher Lead Co., 100 William St.
National Lead Co., 111 Broadway

Lithium Ore
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Lithopone

Cal., San Francisco
Dill-Crosett, Inc., 235 Pine St.
Braun-Knecht-Heimann Co., 584 Mission St.
Del., Newport
Krebs Pigment & Chemical Co.
Ill., Chicago
Midland Chemical Co., 80 E. Jackson Blvd.
*Stresen-Reuter & Hancock, Inc., 1501 S. Peoria St.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
N. Y., Brooklyn
Wiarda & Co., Inc., John C., 273 Green St.
N. Y., New York City
Butterworth-Judson Co., 61 Broadway
Edgertyn Aniline Corp., 118 William St.
Harrison Works, 80 Maiden Lane
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
New Jersey Zinc Co., 55 Wall St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co.
Sherwin-Williams Co.
Pa., Philadelphia
Beckton Chemical Co., 3500 Grays Ferry Road
Graves Corp., N. Z., 22–24 S. Third St.
Harrison Works, 35th and Grays Ferry Road
Mantau Chemical Co., 3500 Grays Ferry Road

Litmus

Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
*Daigger & Co., A., 52 W. Kinzie St.
*Laboratory Supply Co.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Eimer & Amend, Third Ave. and 18th St.
*Palo Co., 90 Maiden Lane
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co.

Litmus, Blue

Ill., Chicago
American Indicator Paper Co.

Litmus, Neutral

Ill., Chicago
American Indicator Paper Co.

Litmus, Red

Ill., Chicago
American Indicator Paper Co.

Logwood

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Logwood Crystals

N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Scotland, Glasgow
Barr, Ltd., James C., 27 Blythswood Square

Logwood, Solid

N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine St.

Logwood Sticks

N. Y., New York City
Jamaica Dyewood & Chemical Co., 50 Church St.

Lupulin

Cal., San Francisco
Horst Co., E. Clements

Lubricants, Graphite

Ill., Chicago
Randall Graphite Sheet Lubricator Co., 816–818 W. Lake St.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Kelly Graphite Mills, 534 W. 22d St.

Lycopodium

Mich., Charlotte
Charlotte Drug Co.
N. Y., New York City
*Freeman & Co., R. B., 96 Wall St.

Lye (*see also Alkali*)

Lysol

England, Darlington
Parkin, Ness & Co., Quebec St.
N. Y., New York City
Lehn & Fink, Inc., 120 William St.

Madder

N. Y., New York City
*Innis, Speiden & Co., 46 Cliff St.

Magnesite (*see Magnesium Carbonate*)

Magnesite Brick

Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Magnesite, Crude

N. Y., New York City
*Doherr, Grimm & Co., 87 Gold St.

Magnesite, Dead Burnt

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Magnesia

N. Y., New York City
*Dunn & Kruse, 53 Park Row
Ohio, Lockland
Carey Co., Philip
Pa., Ambler
Keasbey & Mattison Co.

Magnesia, Calcined

N. Y., New York City
National Aniline & Chemical Co., 244 Madison Ave.
Pa., Ambler
Keasbey & Mattison Co.

Magnesium (*Metal*)

Mich., Midland
Dow Chemical Co.
N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
McKesson & Robbins, Inc., 91 Fulton St.
Norton Laboratories, 296 Madison Ave.
Roessler & Hasslacher Chemical Co., 100 William St.
N. Y., Niagara Falls
American Magnesium Corp.
Pa., Philadelphia
Drueding Bros. Co., 5th and Master Sts.
Foote Mineral Co., Inc., 120 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Magnesium Powder

N. Y., Niagara Falls
American Magnesium Corp.

Magnesium Bromate

Mich., Midland
Dow Chemical Co.

Magnesium Carbonate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
Mich., Midland
Dow Chemical Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Greene St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Katzenbach & Bullock Co., 100 William St.
National Aniline & Chemical Co., 244 Madison Ave.
Pa., Ambler
Keasbey & Mattison Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Wash., Valley, Stevens Co.
American Mineral Production Co.

Magnesium Chloride

England, Smithy Bridge, near Rochdale
Dearhead Chemical Co.
Mich., Midland
Dow Chemical Co.
N. Y., New York City
Baker & Bro., H. J., 81 Fulton St.
Cooper & Co., Charles, 194 Worth St.
*Doherr, Grimm & Co., 87 Gold St.
Katzenbach & Bullock Co., 100 William St.
*Klipstein & Co., A., 644 Greenwich St.
Norton Laboratories, Inc., 296 Madison Ave.
Roessler & Hasslacher Chemical Co., 100 William St.
Squibb & Sons, E. R., 80 Beekman St.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
Pa., Philadelphia
American Magnesium Chloride Co.
Foote Mineral Co., 120 N. 19th St.
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
R. I., Providence
*Lewis, John D.

Magnesium Oxide

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Norton Laboratories, 296 Madison Ave.

Magnesium Oxide—*cont.*

Pa., Ambler
Keasbey & Mattison Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Magnesium Perborate

N. Y., New York City
Roessler & Hasslacher Chemical Co., 100 William St.

Magnesium Salicylate

N. Y., New York City
Heyden Chemical Works, 135 William St.

Magnesium Sulphate

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
Daigger & Co., A., 52–56 W. Kinzie St.
Victor Chemical Works, 343 S. Dearborn St.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
*Heil Chemical Co., Henry, 216 S. 4th St.
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
General Chemical Co., 25 Broad St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
Squibb & Son, E. R., 80 Beekman St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co.
*Harshaw, Fuller & Goodwin Co.
Ohio, Columbus
*Laboratory Supply Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Synthetic Chemical Works, Inc.
*Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co.

Manganese

Cal., San Francisco
Dill-Crosett, Inc., 235 Pine St.
Ill., Chicago
Great Western Smelting & Refining Co., 41st and Wallace Sts.
Mich., Detroit
Michigan Smelting & Refining Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.
Edgertyn Aniline Corp., 118 William St.
Metal & Thermit Corp., 120 Broadway
*Hardy, Charles, 50 Church St.
Nassau Smelting & Refining Works
*Philipp Bros., Inc., 29 Broadway
*Wood, Inc., J. Early, 21 Platt St.
Pa., Philadelphia
Ajax Metal Co., 46 Richmond St.
Lavino & Co., E. J., Bullitt Bldg.
Powers-Weightman-Rosengarten Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Manganese Acetate, Commercial

Canada, Montreal, P. Q.
Canadian Electro Products Co., Ltd., 611 Power Bldg.

Manganese-Aluminium

N. Y., New York City
Goldschmidt-Thermit Co., 120 Broadway

Manganese Borate

Mass., Boston
Martin, Gus
N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
*Import Chemical Co., 276 Water St.
*Klipstein & Co., A., 644 Greenwich St.
Pacific Coast Borax Co., 100 William St.
*Pfaltz & Bauer, Inc., 300 Pearl St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Scheel, William H., 159 Maiden Lane
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
*Meyer & Sons, J., 480 Bourse Bldg.

Manganese Carbonate

N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.

Manganese Chloride

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Import Chemical Co., 276 Water St.

Manganese Chloride—*cont.*

N. Y., New York City—cont.
*Klipstein & Co., A., 644 Greenwich St.
*Pfaltz & Bauer, Inc., 300 Pearl St.
Roessler & Hasslacher Chemical Co., 100 William St.
Pa., Philadelphia
*Meyer & Sons, J., 480 Bourse Bldg.

Manganese-Copper, 30/70%

N. Y., New York City
Goldschmidt-Thermit Co., 120 Broadway

Manganese Dioxide

Ark., Fort Smith
Industrial Laboratories, Inc.
Cal., Los Angeles
Pacific Mineral Products Co.
N. Y., Brooklyn
Highfield, John W., 248 N. 10th St.
N. Y., New York City
*Earle, E. P., 165 Broadway
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros. & Co., 2 Stone St.
*Harshaw, Fuller & Goodwin Co., 100 William St.
Heyden Chemical Works, The
*Import Chemical Co., 276 Water St.
*Klipstein & Co., A., 644 Greenwich St.
*Lamson & Bro., John L., 80 Maiden Lane
McKesson & Robbins, Inc., 91 Fulton St.
*Pfaltz & Bauer, 300 Pearl St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Scheel, W. H., 159 Maiden Lane
Squibb & Sons, E. R., 80 Beekman St.
*Tennant & Sons Co., C., 100 William St.
Pa., Philadelphia
Foote Mineral Co., Inc., 120 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
*Meyer & Sons, J., 480 Bourse Bldg.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Wis., Madison
Burgess Mineral Co.

Manganese Linoleate

N. Y., New York City
*Import Chemical Co., 276 Water St.
*Klipstein & Co., A., 644 Greenwich St.
*Sloan & Russell, Inc., 132 Nassau St.
Pa., Philadelphia
*Meyer & Sons, ., 480 Bourse Bldg.

Manganese Oleate

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Manganese Oxide, Granulated 85%

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Manganese Peroxide (*see Manganese Dioxide*)

Manganese Resinate

N. J., Harrison
National Oil Products Co., Essex and First Sts.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Scheel, William H., 159 Front St.
*Sloan & Russell, Inc., 132 Nassau St.

Manganese Resinate (*Precipitated and Fused*)

Pa., Philadelphia
*Meyer & Sons, J., 480 Bourse Bldg.

Manganese, Silico-

Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Manganese Sulphate

Ark., Fort Smith
Industrial Laboratories, Inc.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Import Chemical Co., 276 Water St.
*Klipstein & Co., A., 644 Greenwich St.
Pa., Philadelphia
*Meyer & Sons J., 480 Bourse Bldg.

Manganese Titanium

N. Y., New York City
Goldschmidt-Thermit Co., 120 Broadway

Mastic, Acid Proof

Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.

Menthol

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*Van Brunt & Co., Inc., J. A., 114 John St.

Mercuric Bisulphate, Tech.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Mercuric Chloride

Mo., St. Louis
*Heil Chemical Co., Henry, 210–214 S. 4th St.
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Eimer & Amend, 205–211 Third Ave.
General Chemical Co., 25 Broad St.
Kalbfleisch Corp., 31 Union Square, W.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*Rockhill & Vietor, 22 Cliff St.
Squibb & Sons, E. R., 80 Beekman St.
Toch Bros., 320 5th Ave.
Ohio, Columbus
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
*Thomas Co., Arthur H., W. Washington Square

Mercuric Oxide

Can., Shawinigan Falls, Quebec
Canadian Electro Products Co., Ltd., Office, Power Bldg., Montreal
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Mercury

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Mine & Smelter Supply Co.
England, London, E. C. 3
Berk & Co., Ltd., 1 Fenchurch Ave.
Ill., Chicago
Daigger & Co., A., 52–56 W. Kinzie St.
N. Y., New York City
*Beer, Sondheimer & Co., 61 Broadway
*Cooper & Co., Charles, 194 Worth St.
*Eimer & Amend, 205–211 Third Ave.
General Chemical Co., 25 Broad St.
Haas Bros., 27 William St.
*Ketchum & Co., 65 Fulton St.
*Lathrop & Co., H. R., 200 Water St.
*McKesson & Robbins, Inc., 91 Fulton St.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Hagstoz Co., T. B., 709 Sansom St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Mercury, C. P.

Del., Milford
Caulk Co., The L. D.
N. Y., New York City
Consolidated Dental Mfg. Co., 134 Washington Place

Mercury Salts (*see specific headings*)

Merrillite

Cal., San Francisco
Merrill Metallurgical Co., 121 Second St.

Metal, Acid Proof

N. Y., Buffalo
Buffalo Foundry & Machine Co., 43 Winchester Ave.
N. Y., New York City
Duriron Castings Co.
Pa., Pittsburgh
Keystone Bronze Co., 39th and Allegheny Valley Railroad
Lawrenceville Bronze Co., 3046 Pennsylvania Ave.
Vanadium Metals Co., Forbes and Meyran Sts.
Wayne Brass Foundry, 4635 Butler St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Metals, Rare (*see also Minerals, Rare*)

N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.

Metal, Acid Resistant

N. Y., New York City
United Lead Co., 111 Broadway
Pa., Philadelphia
Ajax Metal Co., 46 Richmond St.

Metanitraniline

N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Drug & Dyestuff Corp., 120 Broadway

Metanitroparatoluidine

N. Y., New York City
Chemical Co. of America, 28 Platt St.
Edgertyn Aniline Corp., 118 William St.

Metaphenylenediamine

Ill., Quincy
Monroe Color & Chemical Co.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Metatoluylenediamine

N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Tenn., Kingsport
Federal Dyestuffs & Chemical Corp.

Methyl, Pure

N. Y., Buffalo
Wood Products Co.

Methyl Anthranylate

N. Y., New York City
Bush & Co., W. J., 100 William St.
Compagnie, Morana, 184 Fifth Ave.
*Fritzsche Bros., 82 Beekman St.
Gross & Co., Geo. V., 30 Old Slip St.
*Van Dyk & Co., 6 Platt St.

Methyl Benzoate

N. J., Jersey City
Seydel Mfg. Co., Forrest and Hoillday Sts.

Methyl Oxyhydrate

N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.

Methyl Salicylate

Mich., Midland
Dow Chemical Co.
N. Y., New York City
Barrett Co., 17 Battery Place
Heyden Chemical Works, 135 William St.
Merck & Co., 45 Park Place
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711–19 Forbes St.

Mica

Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Minerals, Rare

Cal. Los Angeles
Calm, C. E., California Club
N. Y., New York City
Eimer & Amend, 205-211 Third Ave.
*Leavitt & Co., C. W.
Pa., Philadelphia
Foote Mineral Co., Inc., 120 N. 19th St.
Pennsylvania Salt Mfg. Co.
Lavino & Co., C. J., Bullitt Bldg.

Mineral Fillers

Ill. Chicago
*Stresen-Reuter & Hancock, Inc., 1501 S. Peoria St.

Mineral Wool

Ill. Chicago
*Acme Asbestos Covering & Supply Co., 401 N. Ada St.

Moellons

N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway

Moellon Degras

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Molybdenates

Cal., Los Angeles
Calm, C. E., California Club
Canada, Ontario, Orillia
*International Molybdenum Co., Ltd.
N. Y., New York City
*Hardy, Charles, 50 Church St.
*Philipp Bros., Inc., 29 Broadway
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Monazite Ore

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Monobrombenzol

Mich., Midland
Dow Chemical Co.
W. Va., Charleston
Rollin Chemical Co., Inc.

Monochlorbenzol

Mich., Midland
Dow Chemical Co.
N. Y., New York City
DuPont Chemical Works, 120 Broadway
Edgertyn Aniline Corp., 118 William St.
Hooker Electrochemical Co., 40 Wall St.
National Aniline & Chemical Co., 244 Madison Ave.
*Williamson & Co., 120 Broadway
N. Y., Niagara Falls
Niagara Alkali Co.

Monochrome

N. Y., New York City
*Innis, Speiden & Co., 46 Cliff St.

Monoethylaniline

N. Y., New York City
Chemical Co. of America, 28 Platt St.
Edgertyn Aniline Corp., 118 William St.

Morphine Sulphate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.

Muriatic Acid (*see Acid Hydrochloric*)

Myrabolams

Mass., Boston
Montgomery & Co., W. L., 146 Summer St.
United Indigo & Chemical Co., 176 Federal St.
N. Y., New York City
Downes & Co., Inc., 102 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway

Naphtha

Ala., Birmingham
Tennessee Coal, Iron & R. R. Co.
Md., Baltimore
Interocean Oil Co.
N. Y., New York City
Barrett Co., 17 Battery Place
DuPont Chemical Works, 120 Broadway
Edgertyn Aniline Corp., 118 William St.
Interocean Oil Co., 90 West St.
New Jersey Products, Inc., 165 Broadway
Texas Co., 17 Battery Place
United States Asphalt Refining Co.
Zobel Co., Inc., Ernst, 38 Water St.

Naphthas, Coal Tar

Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
N. Y., New York City
Barrett Co., The, 17 Battery Place

Naphtha, Crude, Refined

N. Y., New York City
DuPont Chemical Works, 120 Broadway

Naphtha, Crude Solvent, Heavy

Ill., Chicago
Lewis Mfg. Co., F. J., 2500 S. Robey St.
N. Y., New York City
Barrett Co., 17 Battery Place

Naphtha, Refined Solvent

Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.

Naphtha, Solvent

N. J., Elizabeth
Bayway Chemical Co.
N. Y., Buffalo
Lackawanna Steel Co.
N. Y., New York City
Aetna Explosive Co., Inc., 120 Broadway
Barrett Co., 17 Battery Place
DuPont Chemical Works, 120 Broadway
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
*New Jersey Products, Inc., 165 Broadway
Williamson & Co., 120 Broadway
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Youngstown
Youngstown Sheet & Tube Co.
Pa., Carnegie
Aetna Chemical Co.
Pa., Philadelphia
Midvale Steel Co.
Pa., South Bethlehem
Bethlehem Steel Co.

Naphtha, Solvent, Crude

Ill., Chicago
Lewis Mfg. Co., F. J., 2500 S. Robey St.
N. Y., Buffalo
Lackawanna Steel Co.
N. Y., New York City
Barrett Co., 17 Battery Place
DuPont Chemical Works, 120 Broadway
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.

Naphtha, Solvent, Heavy

Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.

Naphthalene

Ala., Birmingham
Gulf States Steel Co., Brown-Marx Bldg.
Tennessee, Coal, Iron & R. R. Co.
Ala., Woodward
Woodward Iron Co.
American Tar Products Co.

Naphthalene—*cont.*

Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.

Colo., Denver
Colorado Fuel & Iron Co., Boston Bldg.

England, Darlington
Parkin, Ness & Co., Quebec St.

Ill., Aurora
Coal Products Mfg. Co.

Ill., Chicago
By-Products Coke Corp.
Illinois Steel Co., 208 S. LaSalle St.
Inland Steel Co., First National Bank Bldg.

Ill., Waukegan
North Shore Gas Co.

Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.

Ind., Linton
Linton Gas Co.

Ind., Muncie
Central Indiana Gas Co.

Ind., Terre Haute
Indiana Coke & Gas Co.

Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
New England Fuel & Trans. Co., 111 Devonshire St.

Mich., Wynadotte
Michigan Alkali Co.

Minn., Duluth
Minnesota Steel Co., Morgan Park Station

Minn., St. Paul
Minnesota By-Product Coke Co.

Minn., West Duluth
Zenith Furnace Co.

Mo., St. Louis
Laclede Gas Light Co., 1017 Olive St.

N. J., Elizabeth
Bayway Chemical Co.

N. J., Jersey City
Seaboard By-Product Coke Co.

N. J., Newark
Camden Coke Co., Broad and Bank Sts.

N. Y., Buffalo
Buffalo Union Furnace Co.
Lackawanna Steel Co.

N. Y., Lackawanna
Lackawanna Steel Co.

N. Y., New York City
Barrett Co., The, 17 Battery Place
DuPont Chemical Works, 120 Broadway
Edgertyn Aniline Corp., 118 William St.
Eimer & Amend, 205–211 Third Ave.
*Fuerst Bros. & Co., 2 Stone St.
*Klipstein & Co., A., 644 Greenwich St.
*Leggett & Bro., 301 Pearl St.
Marden, Orth & Hastings Co., 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*New Jersey Products, Inc., 165 Broadway
Niagara Coke Corp., 6 Church St.
*Nitrate Agencies Co., 102 Pearl St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Schieffelin & Co., 170 William St.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.

N. Y., Syracuse
Semet-Solvay Co.

Ohio, Cleveland
American Steel & Wire Co., Western Reserve Bldg.
Dover By-Product Coke Co., Leader-News Bldg.
River Furnace Co.
Toledo Furnace Co., Western Reserve Bldg.
United Furnace Co., Western Reserve Bldg.

Ohio, Cincinnati
Chatfield Mfg. Co., 3d and Plum Sts.

Ohio, Hamilton
Hamilton-Otto Coke Co.

Ohio, Youngstown
Brier Hill Steel Co.
Republic Iron & Steel Co.
Youngstown Sheet & Tube Co.

Ohio, Steubenville
La Belle Iron Works

Pa., Carnegie
Aetna Chemical Co.

Pa., Chester
Philadelphia Suburban Gas & Electric Co.

Pa., McKeesport
Allegheny By-Product Coke Co.

Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Midvale Steel Co., Widener Bldg.
Smith, Kline & French Co., 431 Arch St.

Pa., Pittsburgh
Carnegie Steel Co.
National Tube Co., Frick Bldg.

Pa., South Bethlehem
Bethlehem Steel Co.

Tenn., Chattanooga
Chattanooga Gas & Coal Products Co., James Bldg.

Wash., Seattle
Seattle Lighting Co., 360 Stuart Bldg.

Wis., Milwaukee
Milwaukee Coke & Gas Co.
Northwestern Iron Co., First National Bank Bldg.

Naphthalene Balls

Cal., San Francisco
Braun-Knecht-Heimann Co., 384 Mission St.
Ill., Chicago
Lewis Mfg.Co., F. J., 2500 S. Robey St.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Naphthalene, Crude

Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Ohio, Cincinnati
Chatfield Mfg. Co., The

Naphthalene, Crushed

Ill., Chicago
Lewis Mfg. Co., F. J., 2500 S. Robey St.

Naphthalene, Flake

Ill., Chicago
Lewis Mfg. Co., F. J., 2500 S. Robey St.
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
Barrett Co., 17 Battery Place
DuPont Chemical Works, 120 Broadway
*Hirsh & Son, L., 368 Greenwich St.
*Klipstein & Co., A., 644 Greenwich St.
New Jersey Products, Inc., 165 Broadway
*Nitrate Agencies Co., 102 Pearl St.
Pa., Johnstown
Union Chemical & Refining Co.

Naphthalene, Lumps: Solid, Pt. 78–79 C

Ill., Chicago
Lewis Mfg. Co., F. J., 2500 S. Robey St.

Naphthalene, Powdered, for Intermediates

Ill., Chicago
Lewis Mfg. Co., F. J., 2500 S. Robey St.
Ohio, Cincinnati
Chatfield Mfg. Co., The

Naphthalene, Whizzed, Solid, Pt. 76–78 C

Ill., Chicago
Lewis Mfg. Co., F. J., 2500 S. Robey St.

Naphthalene, Dinitro

N. Y., Kingston
Nitrated Chemicals Co.

Naphthylamine, Alpha

N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.

Naphthylamine, Black D

Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Naphthyl Salicylate, Beta

N. Y., New York City
Organic Products Corp., 469 State St.

Naphtol, Alpha

N. J., Newark
Central Dyestuff & Chemical Co., Plum Pt. Lane
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway

Naphtol, Alpha, Crude

Ohio, Sandusky
Hord Color Products Co., The

Naphtol, Alpha, Distilled

Ohio, Sandusky
Hord Color Products Co., The

Nickel Ammonium Sulphate

N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
Squibb & Sons, E. R., 80 Beekman St.

Nickel Chloride

N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Fuerst Bros. & Co., 2 Stone St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.

Naphthaline (*see Naphthalene*)

Nickel Copper, 50/50%

N. Y., New York City
Goldschmidt-Thermidt Co., 120 Broadway

Nickle, Metallic, in grains

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Nickel Oxide

N. Y., New York City
*Cooper, Chas. & Co., 194 Worth St.
Fuerst Bros. & Co., 2 Stone St.
*Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co., Electric Bldg.
Pa., Easton
*Baker & Adamson Chemical Co.

Nickel Oxide, Green, Pure

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Nickel Salts, Double and Single

(*see also specific headings*)
N. J., Matawan
Munning Loeb Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Harshaw, Fuller & Goodwin Co., 100 William St.
*Klipstein & Co., A., 644 Greenwich St.

Nickel Sulphate

N. J., Perth Amboy
Raritan Copper Works
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
*Fuerst Bros. & Co., 2 Stone St.
New Jersey Products, Inc., 165 Broadway
Philipp Bros., Inc., 29 Broadway

Nigrosines

England, Lancashire, Edenfield
Sharp, Ltd., J. B. & W. R.
N. J., Bound Brook
Calco Chemical Co.
N. Y., New York City
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Edgertyn Aniline Corp., 118 William St.
Empire Chemical Co., 149 Broadway
Marden, Orth & Hastings Co., 61 Broadway
National Aniline & Chemical Co., Inc., 244 Madison Ave.
National Gum & Mica Co., 59th St. & 11th Ave.
R. I., Providence
Industrial Chemical Co.

Nigrosine Blue, W. S.

R. I., Providence
Industrial Chemical Co., Inc., P. O. Box 1288

Nigrosine Crystals

N. Y., New York City
*Dicks David Co., Inc., 302 Broadway

Nigrosine, Jet X. S.—W. S.

R. I., Providence
Industrial Chemical Co., Inc., P. O. Box 1288

Nigrosine Spirits

N. Y., New York City
*Dicks David Co., Inc., 302 Broadway

Nitraniline Para

Cal., San Francisco
California Aniline & Chemical Co., 33 Clementina St.
N. J., Bound Brook
Calco Chemical Co.
N. Y., Kingston
Nitrated Chemical Co.
N. Y., New York City
Berlin Aniline Works, 213 Water St.
Chemical Co. of America, 28 Platt St.
Edgertyn Aniline Corp., 118 William St.
*Geisenheimer & Co., 134 Cedar St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*Williamson & Co., 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Wappingers Falls
Standard Aniline Products, Inc.
Ohio, Cleveland
Sherwin-Williams Co.

Nitre Cake

Colo., Denver
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.
Conn., Naugatuck
Naugatuck Chemical Co.
Del., Wilmington
DuPont de Nemours Co., E. I.
Ill., Chicago
Armour Fertilizer Works
Mo., St. Louis
Commercial Acid Co., Boatman's Bldg.
N. Y., Buffalo
Contact Process Co., Abbott Road, near Lee

Nitre Cake—*cont.*

N. Y., New York City
Butterworth-Judson Corp., 61 Broadway
DuPont Chemical Works, 120 Broadway
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
Marden, Orth & Hastings Co., 61 Broadway
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cincinnati
Globe Chemical Co., 1135 Regent Ave.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road
Pennsylvania Salt Mfg. Co., Widener Bldg.
Tenn., Copperhill
Tennessee Copper Co.

Nitroacetanilid, Para

N. Y., New York City
Chemical Co. of America, 28 Platt St.
New Jersey Products ,Inc., 165 Broadway

Nitrobenzene (*see Nitrobenzol*)

Nitrobenzol

Conn., Naugatuck
Naugatuck Chemical Co.
Mo., St. Louis
*Heil Chemical Co., Henry, 210–214 S. 4th St.
N. J., Bound Brook
Calco Chemical Co.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
DuPont Chemical Works, 120 Broadway
*Geisenheimer & Co., 134 Cedar St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
Merck & Co., 45 Park Place
Middlesex Aniline Co., Inc., 149 Broadway
National Aniline & Chemical Co., Inc., 244 Madison Ave.
New Jersey Products, Inc., 165 Broadway
*Rockhill & Vietor, 22 Cliff St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Square
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Nitrocellulose

Mass., Boston
Merrimac Chemical Co., 32 Broad St.
N. Y., New York City
DuPont Chemical Works, 120 Broadway

Nitrochlorbenzol, Ortho

N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Geisenheimer & Co., 134 Cedar St.

Nitrochlorbenzol, Para

N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Drug & Dyestuff Corp., 120 Braodway
*Geisenheimer & Co., 134 Cedar St.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Nitrogen

N. Y., New York City
Air Reduction Sales Co., Inc., 120 Broadway
Linde Air Products Co.
Pa., Philadelphia
Air Reduction Co., Inc., Germantown and Sedgley Aves.
American Oxygen Co.

Nitroglycerine (*see Explosives*)

Mass., Boston
Merrimac Chemical Co., 32 Broad St.

Nitronaphthalene

N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
Barrett Co., 17 Battery Place
*Klipstein & Co., A., 644 Greenwich St.
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Nitronaphthalene, Alpha

N. Y., New York City
*Geisenheimer & Co., 134 Cedar St.

Nitronaphthylamine

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Nitrophenol, Ortho

Ill., Monroe
Monroe Color & Chemical Co.
Mo., St. Louis
*Heil Chemical Co., Henry, 210–214 S. 4th St.

Nitrophenol, Ortho—*cont.*

N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Herman & Herman, Inc., 6 Church St.
Merck & Co., 45 Park Place
National Gum & Mica Co., 59th St. and 11th Ave.
*Williamson & Co., 120 Broadway
N. Y., North Tonawanda
Synthetic Mfg. Co.
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Nitrophenol, Para

Ill., Monroe
Monroe Color & Chemical Co.
Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Drug & Dyestuff Corp., 120 Broadway
Merck & Co., 45 Park Place
National Gum & Mica Co., 59th St. and 11th Ave.
*Williamson & Co., 120 Broadway
N. Y., North Tonawanda
Synthetic Mfg. Co.
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Nitroso-Dimethylaniline

N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway

Nitrotoluol

N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
Empire Chemical Co., 149 Broadway
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
Newport Chemical Works, Inc., 120 Broadway

Nitrotoluol, Meta

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place

Nitrotoluol, Ortho

Ill., Chicago
Burdett Mfg. Co.
National Ox-Hydro Co.
Western Aniline Products Co.
Mo., St. Louis
*Heil, Henry Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
Empire Chemical Co., 149 Broadway
Merck & Co., 45 Park Place
Ohio, Cleveland
Sherwin-Williams Co.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Nitrotoluol, Para

Ill., Chicago
Western Aniline Products Co.
Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
Empire Chemical Co., 149 Broadway
Merck & Co., 45 Park Place
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Nitrous Oxide

Ill., Chicago
*Burdett Mfg. Co., St. Johns Ct. and Fulton St.
Ohio, Cleveland
Lennox Chemical Co., 1201 E. 55th St.
Ohio Chemical & Mfg. Co., 1177 Marquette Road

Non-Freezing Solutions

Minn., Minneapolis
Zenith Scientific Laboratories, 21 Fifth Ave., N. E.

Nuclein

Ill., Chiacgo
Abbott Laboratories, The, 4753 Ravenswood Ave.

Oakum

N. J., Jersey City
Davey, W. O., Sons
Stratford, Geo., Oakum Co.
Pa., Philadelphia
Hoffman-Corr Mfg. Co.

Ochre

Cal., San Francisco
Dill-Crosett, Inc., 235 Pine St.
Ill., Chicago
Illinois Smelting & Refining Co.
N. Y., New York City
Heller & Merz Co., 505 Hudson St.
New Jersey Zinc Co.

Ochre, Yellow

N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
*Osborn Co., C. J., 132 Nassau St.

Oil, Aniline (*see Aniline*)

Oil, Castor

Md., Baltimore
*Walter Co., Edw. J., 803 American Bldg.
Mass., Atlantic
Bosson & Lane
N. J., Passaic
*Wolf & Co., Jacques
N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
Marden, Orth & Hastings Co., 61 Nassau St.
Broadway
*Sloan & Russell, Inc., 132 Nassau St.
*Williamson & Co., 120 Broadway
Ohio, Cincinnati
*Winkler & Bro. Co., Isaac, 804 First National Bank Bldg.

Oil, Corn

Ill., Chicago
Wilson & Co.
Ind., Edinburg
Union Starch Refining Co.
Ind., Indianapolis
American Hominy Co.
Iowa, Cedar Rapids
Douglas Co.
N. J., Passaic
*Wolf, Jacques, & Co.
N. Y., New York City
American Maize-Products Co., 135 William St.
Corn Products Refining Co., 17 Battery Place
Marden, Orth & Hastings Co., 61 Broadway

Oil, Cottonseed, Refined

Ill., Chicago
Fairbanks & Co., N. K., 7 S. Dearborn Ave.
Swift & Co., Union Stock Yards
Wilson & Co., 41st and Ashland Ave.
Ky., Louisville
Louisville Cotton Oil Co.
Victor Cotton Oil Co.
N. Y., New York City
American Cotton Oil Co., 27 Beaver St.
Edgertyn Aniline Corp., 118 William St.
Hopkins, Dwight & Co., Cotton Exchange
*Jardine, Matheson & Co., Ltd., 63 Wall St.
Marden, Orth & Hastings Co., 61 Broadway
Southern Cotton Oil Co., 24 Broad St.
Swann & Finch Co., 151 Maiden Lane
Union Seed & Fertilizer Co., 27 Beaver St.
*Welch, Holme & Clark Co., 381 West St.
Ohio, Cincinnati
Buckeye Cotton Oil Co.
Globe Soap Co.
Proctor & Gamble Co.
R. I., Providence
Union Oil Co.

Oil, Dead

N .Y., New York City
DuPont Chemical Works, 120 Broadway

Oil, Fusel (*see Alcohol amyl*)

Oil, Linseed

Cal., Los Angeles
Globe Grain & Milling Co.
Cal., San Francisco
Dill-Crosett, Inc., Postal Telegraph Bldg.
Pacific Oil & Lead Works, 155 Townsend St.
Ill., Chicago
Chicago White Lead & Oil Co., 15th and Western Ave.
Minn., Minneapolis
Archer-Daniels Linseed Co., 2901 S. E. 6th St.
Minnesota Linseed Oil Co., 1101 S. 3d St.
Northern Linseed Oil Co.
Midland Linseed Products Co.
N. Y., Buffalo
Longman & Martinez, 207 Pearl St.
Mann Bros. Co., 332 Ohio Ave.
Niagara Linseed Oil Works
Spencer, Kellogg & Sons, Inc.
N. Y., New York City
Atlantic White Lead & Linseed Oil Co., 111 Broadway
American Cotton Oil Co., 27 Beaver St.
Casey & Co., J. A., 144 Maiden Lane
Jardine, Matheson & Co., Ltd., 63 Wall St.
Marden, Orth & Hastings Co., 61 Broadway
National Lead Co., 111 Broadway
*Swan & Finch Co., 151 Maiden Lane
Ohio, Cleveland
Sherwin-Williams Co.
Ohio, Toledo
Toledo Seed & Oil Co.
Pa., Philadelphia
Lewis & Bros., Co., J. T., Lafayette Bldg.

Oil, Linseed—*cont.*

Pa., Pittsburgh
National Lead & Oil Co. of Pa., Commonwealth Bldg.

Oil, Non-Foam

N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway

Oil, Olein

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Ohio, St. Bernard
Werk Co., The M., Murray Ave.

Oil, Olive

Md., Baltimore
Pomeian Co.
*Walter Co., Edw. J., 803 American Bldg.
N. J., Passaic
*Wolf, Jacques & Co.
N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway
*Strohmeyer & Arpe Co., 139 Franklin St.

Oil, Orange (Passaic)

N. J., Passaic
American Color Mfg. Co., Gregory Ave. and River Road

Oil, Pine

Fla., Jacksonville
Florida Wood Products Co.
Ga., Cutting
Georgia Lumber & Turpentine Co.
La., New Orleans
American Turpentine & Tar Co., Ltd.
Gulf Naval Stores Supply Co.
N. Y., New York City
Fuller & Co., Ralph L., 4 Rector St.
Georgia Pine Turpentine Co., 158 Perry St.
General Naval Stores Co., Inc., 90 West St.
Zobel Co., Inc., 38 Water St.
Wis., Milwaukee
Newport Turpentine & Rosin Co., 1112 First National Bank Bldg.

Oil, Rapeseed

N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway
National Gum & Mica Co., 59th St. and 11th Ave.
*Sloan & Russell, Inc., 132 Nassau St.

Oil, Red, 3 BX (Passaic)

N. J., Passaic
American Color Mfg. Co., Gregory Ave. and River Road

Oil, Scarlet, R. (Passaic)

N. J., Passaic
American Color Mfg. Co., Gregory Ave. and River Road

Oil, Soluble Base

N. J., Harrison
National Oil Products Co., Essex and First Sts.

Oil, Soya Bean

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Marden, Orth & Hastings Co., 61 Broadway
*Mitsui & Co., Ltd., 25 Madison Ave.
*Sloan & Russell, Inc., 132 Nassau St.

Oil, Vitriol (*see Acid, Sulphuric*)

Oil, Wood, Light and Heavy

N. Y., Olean
Lackawanna Chemical Co.

Oil, Yellow (Passaic)

N. J., Passaic
American Color Mfg. Co., Gregory Ave. and River Road

Oils, Acetone

N. Y., Brooklyn
*Miner-Edgar Co., 52 Warren St.
N. Y., New York City
DuPont Chemical Works, 120 Broadway
Industrial Chemical Co., 200 Fifth Ave.
Ohio, Cleveland
Cleveland-Cliffs Iron Co.
Pa., East Smethport
Norwich Chemical Co.

Oils, Anthracene

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Oils, Asphaltum

Ohio, Cleveland
National Refining Co., Rose Bldg.
Ohio, Toledo
Sun Co.
Pa., Pittsburgh
Gulf Refining Co., Frick Bldg.

Oils, Bean

N. Y., New York City
*Arnold, Karberg & Co., 21 State St.
Gillespie & Sons, L. C., 6 Fletcher St.
*Maas & Waldstein Co., 100 William St.
Marden, Orth & Hastings Co., 61 Broadway
*Patterson & Co., G. W. S., 133 Front St.
*Swan & Co., Alden S., 133 Front St.
Swan & Finch Co., 151 Maiden Lane

Oils, Bleaching

Mass., Atlantic
Bosson & Lane
N. J., Passaic
*Wolf, Jacques & Co.

Oils, Camphor (*see Oils, Essential*)

Oils, Coal Tar

Ill., Moline
Lewis, F. J., Mfg. Co.
Ohio, Cleveland
Warren Refining & Chemical Co.

Oils, Creosote

Fla., Gull Point
Pensacola Tar & Turpentine Co.
Ga., Savannah
Southern Oil & Chemical Co.
Ill., Chicago
Lewis Mfg. Co., F. J., 2500 S. Robey St.
N. Y., New York City
Barrett Co., 17 Battery Place
DuPont Chemical Works, 120 Broadway
Georgia Pine Turpentine Co., of New York, 158 Perry St.
*Grosche & Co., Bruno, 15 Jones Lane
*Klipstein & Co., A., 644 Greenwich St.
Zobel Co., Inc., Ernst, 38 Water St.
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cincinnati
Chatfield Mfg. Co., 3d and Plum Sts.
Ohio, Cleveland
Cleveland-Cliffs Iron Co., Rockefeller Bldg.
Warren Refining & Chemical Co.
Pa., Philadelphia
Atlantic Turpentine & Refining Co., 421 Chestnut St.
United Gas Improvement Co., Broad and Arch Sts.
Wash., Tacoma
Standard Chemical Co.

Oils, Essential

Cal., Redlands
Citrus Products Co.
Kingsbury, H. P. D.
Cal., San Francisco
Coffin, Redington & Co., 625 3d Ave.
England, Liverpool
Clayton & Jowett, Ltd., 5 Concert St.
Ill., Chicago
Barrett & Co., M. L., 333 W. Lake Ave.
Mass., Boston
Metcalf Co., Theo., 535 Boyleston Ave.
N. Y., Monticello
Synfleur Scientific Laboratories
N. Y., New York City
American Aniline Products Co., Inc., 15 E. 12th St.
Arnold, Karberg & Co., 21 State St.
Bush & Co., W. J., 100 William St.
Chiris Co., Antoine, 18 Platt St.
Dodge & Olcott Co., 87 Fulton St.
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros. & Co., 2 Stone St.
*Fritzache Bros., 82 Beekman St.
*Fuller & Co., Ralph L., 4 Rector St.
*Lueders & Co., Geo., 218 Pearl St.
McKesson & Robbins Co., Inc., 91 Fulton St.
*Maas & Waldstein Co., 100 William St.
*Magnus, Mabee & Reynard, 257 Pearl St.
*Madero Bros., Inc., 115 Broadway
National Aniline & Chemical Co., 244 Madison Ave.
*Rockhill & Vietor, 114 John St.
Rudkin & Co., J. A., 265 Broaway
*Sloan & Russell, Inc., 132 Nassau St.
*Stilwell Co., A. A., 28 Cliff St.
Ungerer & Co., 273 Pearl St.
Wood & Selick, 36 Hudson St.
*Zinkelsen & Co., 135 William St.
Va., Richmond
Sauer Co., C. F.
Spain, Barcelona
Sociedad Anonima Monegal, Apartado Correos, No. 144

Oils, Essential, Terpeneless

N. Y., New York City
Bush & Co., W. J., 100 William St.

Oils, Ethereal

N. Y., New York City
Merck & Co., 45 Park Place
Ohio, Cincinnati
Merrell Chemical Co., Wm. S., 515 E. 5th St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Oils, Flotation

Ga., Savannah
Southern Oil & Chemical Co.
La., New Orleans
American Turpentine & Tar Co., Ldt.
N. Y., New York City
Barrett Co., 17 Battery Place
DuPont Chemical Works, 120 Broadway
Flotation Oil & Chemical Co., 2 Rector St.
*General Naval Stores Co., 90 West St.
Georgia Pine Turpentine Co., 158 Perry St.
Wash., Tacoma
Standard Chemical Co.

Oils, Flower

N. Y., Monticello
Synfleur Scientific Laboratories
N. Y., New York City
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Oils, Fruit

Mass., Boston
American Soda Fountain Co.
N. Y., Monticello
Synfleur Scientific Laboratories
N. Y., New York City
*Stillwell Co., A. A., 28 Cliff St.

Oils, Hydrocarbon

Ohio, Cincinnati
Moore Oil Co., York and McLean Aves.
Ohio, Toledo
Sun Co.
Pa., Bradford
Emery Mfg. Co.

Oils, Hydrogenated

N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway

Oils, Mineral

Scotland, Glasgow
Pumpherston Oil Co., Ltd., 135 Buchanan St.

Oils, Mineral, White

N. Y., New York City
Lehn & Fink, Inc., 120 William St.
McKesson & Robbins, Inc., 91 Fulton St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Standard Oil Co., 26 Broadway
*Swan & Finch Co., 151 Maiden Lane

Oils, Mohlene

N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway

Oils, Monoline

Mass., Boston
Bosson & Lane

Oil, Monopole, U. S. P.

N. J., Passaic
*Wolf, Jacques & Co.

Oil, Myrbane

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
R. I., Providence
Industrial Chemical Co., Inc., P. O. Box 1288

Oils, Pine Flotation

Fla., Jacksonville
Florida Wood Products Co.

Oils, Pine, Steam Distilled, Plain and Soluble

La., Elizabeth
Producers Turpentine Co.

Oils, Pine Tar

N. Y., New York City
*General Naval Stores Co., 90 West St.

Oils, Rosin

Ga., Cutting
Georgia Lumber & Turpentine Co.
Ga., Savannah
Willcox-Ives Oil Co.
La., New Orleans
American Turpentine & Tar Co., Ltd.
Gulf Naval Stores Supply Co.
Mass., Atlantic
Bosson & Lane
N. Y., New York City
*Casey & Co., J. A., 144 Maiden Lane
Edgertyn Aniline Corp., 118 William St.
*General Naval Stores Co., Inc.
Georgia Pine Turpentine Co., 158 Perry St.
Marden, Orth & Hastings Co., 61 Broadway
Ohio, Cincinnati
*Winkler & Bros. Co., Isaac, 804 First National Bank Bldg.

Oils, Sassafras

N. Y., New York City
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Oils, Soluble

England, West Bromwich
Lewington Whitehouse, Olympic Works, Carters Green
Md., Baltimore
Bloede Co., Victor G., Caton Ave.
Thomsen Chemical Co., Race and Winder Sts.
Mass., Atlantic
Bosson & Lane
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
N. J., Harrison
National Oil Products Co., Essex and First St.
N. J., Jersey City
Interstate Chemical Co., 667 Garfield Ave.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
Fiske Bros. Refining Co., 24 State St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
Sonneborn Sons, L., 262 Pearl St.
Standard Oil Co., 26 Broadway
Ohio, Cincinnati
Moore Oil Co., York and McLean Aves.
Pa., Erie
Bayerson Oil Works
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Square

Oils, Sulphonated

Md., Baltimore
Bloede Co., Victor G., Caton Ave., Station "D"
N. J., Harrison
National Oil Products Co., Essex and First Sts.
N. J., Passaic
*Wolf, Jacques & Co.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Pa., Philadelphia
Houghton & Co., E. F., 240 Somerset St.

Oils, Sulphur

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway

Oils, Tar

Fla., Jacksonville
Florida Wood Products Co.
N. Y., New York City
Casey & Co., J. A., 144 Maiden Lane
Georgia Pine Turpentine Co., 158 Perry St.
Marden, Orth & Hastings Co., 61 Broadway
Zobel Co., Inc., Ernst, 38 Water St.

Oils, Vegetable

Ill., Chicago
Swift & Co., Union Stock Yards
N. J., Bayonne
Nucoa Butter Co.
N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
Marden, Orth & Hastings Co., 61 Broadway
*Sloan & Russell, Inc., 132 Nassau St.
*Welch, Holme & Clark Co., 381 West St.
Ohio, Cincinnati
Moore Oil Co., York and McLean Aves.
Pa., Philadelphia
Union Petroleum Co., Widener Bldg.

Oils, Turkey Red

Mass., Atlantic
Bosson & Lane
N. J., Harrison
National Oil Products Co., Essex and First Sts.
N. J., Passaic
*Wolf, Jacques & Co.
N. Y., New York City
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Marden, Orth & Hastings Co., 61 Broadway
Sonneborn Sons, L., 262 Pearl St.
Welch, Holme & Clark Co., 383 West St.
Ohio, Toledo
Paragon Mfg. Co.
Pa., Oil City
Pennsylvania Refining Co.
Texas, Galveston
Magnolia Petroleum Co.

Oils, Wintergreen

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Oils, Wood, Creosote

Ohio, Cleveland
Cleveland-Cliffs Iron Co., Rockefeller Bldg.

Oleum (*see Acid, Sulphuric, Fuming*)

Olo Naphthol

Mass., Atlantic
Bosson & Lane

Olo Soffene

Mass., Atlantic
Bosson & Lane

Orange

N. Y., Cook's Falls
Beaverkill Color & Chemical Co., The

Orange, Acid (Wool)

Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Orange, Anthranine

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Orange, Direct Fast

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Ortholene

N. J., Elizabeth
Bayway Chemical Co.

Osage Orange Extract (*see Extract, Osage Orange*)

Osseine

N. Y., New York City
*Wilckes-Martin-Wilckes Co., 135 William St.

Oxygen

Ill., Chicago
*Burdett Mfg. Co., St. Johns Court
Ind., Indianapolis
Prest-O-lite Co., Inc.,
Md., Baltimore
Commercial Oxygen Co.
N. Y., New York City
Air Reduction Sales Co., Inc., 120 Broadway
American Oxygen Co.
Eimer & Amend, 205-211 Third Ave.
International Oxygen Co., 115 Broadway
Linde Air Products Co., 42d St. Bldg.
*Palo Co., 90-94 Maiden Lane
Ohio, Cleveland
Lennox Chemical Co., 1201 E. 55th St.
Ohio Chemical & Mfg. Co., 1177 Marquette Road
Pa., Philadelphia
Air Reduction Co., Inc., Germantown and Sedgeley Aves.

Ozokerite

Mass., Boston
Bowdlear Co., W. H., 73 Broad St.
*Salomon & Bro., L. A., 216 Pearl St.
Smith & Nichols, 121 Maiden Lane
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.
*Innis, Speiden & Co., 46 Cliff St.
Utah, Soldier Summit
Wasatch Ozokerite Co.

Paints, Acid Proof

Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22d St.
La., New Orleans
Barrett Mfg. Co., Hibernia Bank Bldg.
Mo., St. Louis
Mound City Paint & Color Co., 1531 N. 11th St.
N. Y., Buffalo
Schoellkopf, Hartford & Hanna Co., 351 Abbott St.
N. Y., New York City
General Bakelite Co., 2 Rector St.
Toch Bros., 320 Fifth Ave.
United States Varnish Co., 41 Park Row
N. Y., Syracuse
Semet-Solvay Co.
Pa., Philadelphia
Flexible Compounds Co., 3607 Haverford Ave.
Wis., Milwaukee
Patton Paint Co., 213 Lake Ave.

Paints, Asbestos

Ill., Chicago
*Acme Asbestos Covering & Supply Co., 401 N. Ada St.

Paints, Asphalt

Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.
Md., Baltimore
Interocean Oil Co.
N. Y., New York City
United States Asphalt Refining Co.
Toch Bros., 320 Fifth Ave.
Ohio, Cincinnati
Chatfield Mfg. Co., The

Paints, Chemical (*see Paints, Acid Proof*)

Paints, Cold Water

Mo., St. Louis
Reardon Glue Mfg. Co.

Paints, Elastic Enamel Black

Md., Baltimore
Bloede Co., Victor G., Station "D," Caton Ave.

Paints, Fume Proof (*see Paints, Acid Proof*)

Paints, Gold

N. Y., New York City
DuPont Chemical Works, 120 Broadway

Paints, Metal

Md., Baltimore
Bloede Co., Victor G., Caton Ave.

Paints, Pegamoid Aluminum

N. Y., New York City
DuPont Chemical Works, 120 Broadway

Paints, Refrigeration

N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.

Paints, Rust Proof

N. Y., New York City
Berry Bros., 262 Pearl St.

Paints, Tar

Mich., Detroit
Trun-Con Laboratories
N. Y., New York City
Du Pont Chemical Works, 120 Broadway
Ohio, Cincinnati
Chatfield Mfg. Co., The

Paints, Technical

N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.

Paints, Water Proofing

Md., Baltimore
Bloede Co., Victor G., Caton Ave.
Mich., Detroit
Trun-Con Laboratories
Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
N. Y., New York City
Toch Bros., 320 Fifth Ave.
N. Y., Syracuse
Semet-Solvay Co.

Palladium

N. J., Newark
Baker & Co., Inc., 54 Austin St.
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
U. S. Smelting Co., Inc., 120 Broadway
Palo Co., 90 Maiden Lane
Pa., Malvern
Bishop & Co., Platinum Works, J.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Pancreatin

Ill., Chicago
Armour & Co., Union Stock Yards
Cudahy Packing Co., 111 W. Monroe St.
Md., Baltimore
Sharp & Dohme
Mich., Detroit
Digestive Ferments Co.
Parke, Davis & Co.
N. J., Jersey City
Royal Chemical Co.

Paper Filler

Ill., Chicago
Victor Chemical Works, 1810 Fisher Bldg.

Paraffine Liquid

Pa., Philadelphia
Atlantic Refining Co.

Paraffine Wax (*see also Wax*)

Ill., Chicago
Pennsylvania Oil Co.
N. Y., New York City
Bromund, A. E., & Co., 356 W. Broadway
Marden, Orth & Hastings Co., 61 Broadway
Plymouth Organic Laboratories, 65 Ann St.
Standard Oil Co., 555 W. 25th St.
Smith & Nichols, 121 Maiden Lane
Tidewater Oil Co., 11 Broadway
Union Petroleum Co.
*Wood, Inc., J. Early, 21 Platt St.
Zobel Co., Inc., Ernst, 38 Water St.
Pa., Pittsburgh
Waverly Oil Works Co.
Pa., Warren
Warren Refining Co.
Scotland, Glasgow
Pumpherston Oil Co., Ltd., 135 Buchanan St.

Paraldehyde

Canada, Montreal, P. Q.
Canadian Electro Products, Co., Ltd., 611 Power Bldg.

Paraldehyde—*cont.*

Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Paris Green

Md., Baltimore
*Walter Co., Edw. J., 803 American Bldg.
Mich., Grand Rapids
Carpenter, Udell Co.
Imperial Chemical Co.
N. J., Newark
Cawley, Cark Co.
N. Y., New York City
Blanchard, Co., J. A., 30 Church St.
*Chemical Importing & Mfg. Co., 90 West St.
Eimer & Amend, 205–211 Third Ave.
*Lavanburg, Fred, 100 William St.
McKesson & Robbins, Inc., 91 Fulton St.
*Nitrate Agencies Co., 102 Pearl St.
Pfeiffer, I., 100 William St.
White Tar Co., The, 6 Cliff St.
R. I., Providence
*Lewis, John D.
Wis., Milwaukee
Corono Chemical Co.

Paris White

Cal., San Francisco
Paraffine Paint Co.
England, Liverpool
Brazendals & Co., 37 Leeds St.
Iowa, Fort Dodge
Plymouth Gypsum Co.
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.
*Salomon & Bro., L. A., 216 Pearl St.

Parlodion

N. Y., New York City
DuPont Chemical Works, 120 Broadway

Paste

Mass., Framingham
Dennison Mfg. Co.

Paste, Alcanin

N. Y., Brooklyn
Highfield, John W., 248 N. 10th St.

Paste, Alizarin Blue, 2 B.

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Paste, Cold Water, Dry

Mo., St. Louis
Reardon Glue Mfg. Co.

Paste, Phosphoric Acid

Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
R. I., Providence
Rumford Chemical Works

Paste, Waterproofing

Mich., Detroit
Trus-Con Laboratories, Caniff Road and G. T. R. R.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Pepsin

Ill., Chicago
Armour & Co., Union Stock Yards
Cudahy Packing Co., 111 W. Monroe St.
Md., Baltimore
Sharp & Dohme
Mich., Detroit
Digestive Ferments Co., 16 Locust St.
Parke, Davis & Co.
N. J., Jersey City
Royal Chemical Co.
N. Y., New York City
Fairchild Bros., & Foster, 74 Laight St.
*Gowing & Co., Inc., D. H., 47 W. 34th St.
McKesson & Robbins, Inc., 91 Fulton St.

Perfumes

N. Y., New York City
Perfenol Products Co., Inc., 39 W. 38th St.
Rogers & Gallet, 25 W. 32d St.
Texas, Houston
Hill Extract & Flavor Co.

Perfumes Raw Materials

Ill., Chicago
Kirk & Co., J. S., 106 E. Michigan Ave.
*Sethness Co.
Mass., Boston
Liggett Co., Louis K.
United Drug Co.
United Perfume Co.
N. J., Jersey City
Colgate & Co.
N. Y., Buffalo
Larkin Co.
N. Y., Long Island City
American Druggists Syndicate
N. Y., Monticello
Synfleur Synthetic Laboratories
N. Y., New York City
Chiris, Antoine, Co., 20 Platt St.
Compagnie Morana, 184 Fifth Ave.
Dodge & Olcott Co., 87 Fulton St.
*Fritzsche Bros., 82 Beekman St.

Perfumes Raw Materials—*cont.*

N. Y., New York City—cant.
*Fuller & Co., Ralph L., 4 Rector St.
*Gross & Co., Geo. V., 30 Old Slip St.
*Heine & Co., 7 Platt St.
*Hutchinson, D. W., 94 John St.
*Lathrop & Co., H. R., 116 Beekman St.
*Lueders, Geo., & Co., 218 Pearl St.
*Magnus, Maybee & Reynard, 257 Pearl St.
National Aniline & Chemical Co., 244 Madison Ave.
*Pfaltz & Bauer, Inc., 300 Pearl St.
Plymouth Organic Laboratories, 65 Ann St.
*Rockhill & Vietor, 22 Cliff St.
Ungerer & Co., 273 Pearl St.
*Van Dyk & Co., 6 Platt St.
Ohio, Cincinnati
Jergens Co., Andrew, 2535 Spring Grove Ave.
Pa., Philadelphia
Smith, Kline & French Co., 431 Arch St.
Wampole & Co., H. K., 428 Fairmount Ave.

Petrolatum

Ill., Chicago
*Clark, Frank C., 316 W. Kinzie St.
Pennsylvania Oil Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Eimer & Amend, 205–211 Third Ave.
McKesson & Robbins, Inc., 91 Fulton St.
Texas Co., 17 Battery Place
Tidewater Oil Co., 11 Broadway
White Tar Co., 6 Cliff St.
Ohio, Cleveland
Canfield Oil Co.
Pa., Petrolia
Dougherty, W. H., & Son
Pa., Philadelphia
Atlantic Refining Co.
Union Petroleum Co.
Pa., Pittsburgh
Gulf Refining Co.
Pa., Warren
Amber Oil & Realty Co.
Conewango Refining Co.

Petroleum By-Products

Cal., Los Angeles
General Petroleum Corp.
Union Oil Co. of Cal., 215 W. 7th St.
Ill., Chicago
Consumers' Refining Co.
La., Crowley
Crowley Oil & Mineral Co.
Mo., St. Louis
Pierce Oil Corp., Olive and Broadway
N. Y., New York City
Indian Refining Co., 17 Battery Place
Standard Oil Co., 26 Broadway
Texas Co., 17 Battery Place
Tidewater Oil Co., 11 Broadway
Ohio, Cincinnati
Moore Oil Co., York and McLean Aves.
Ohio, Cleveland
National Refining Co., Rose Bldg.
Ohio, Toledo
Craig Oil Co.
Paragon Refining Co.
Sun Co., The
Okla., Okmulgee
American Refining Co.
Okla., Sapulpa
Phoenix Refining Co.
Sapulpa Refining Co.
Okla., Tulsa
Cosden & Co., Inc.
Okla., Vinita
Milliken Refining Co.
Pa., Bradford
Emery Mfg. Co.
Pa., Freedom
Freedom Oil Works Co.
Pa., Oil City
Crystal Oil Works
Empire Oil Works
Germania Refining Co.
Independent Oil Refining Co., Ltd.
Pennsylvania Refining Co.
Pa., Philadelphia
Pure Oil Co., Lafayette Bldg.
Union Petroleum Co., 135 S. 2d St.
Pa., Pittsburgh
Gulf Refining Co.
Waverly Oil Works Co., 54th St.
Pa., Warren
Warren Refining Co.

Petroleum Jelly

Pa., Philadelphia
Atlantic Refining Co.

Petroleum Pitch

Pa., Philadelphia
Atlantic Refining Co.

Petroleum Spirits

Pa., Philadelphia and Pittsburgh
Atlantic Refining Co.

Pharmaceutical Products (*see also Chemicals, Pharmaceutical*)

England, Oldham
Granville Wood & Co., Aschroft St.
Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.

Pharmaceutical Products—*cont.*

Mich., Detroit
Parke, Davis & Co.
N. Y., New York City
Bayer Co., The, 117 Hudson St.
Brandes Co., The, 8th Ave.
Brandes Chemical Co., 8th Ave.
Clare Mfg. Co., 8th Ave.
Edgertyn Aniline Corp., 118 William St.
*Hemingway, Inc., Frank, 115 Broadway
*Herman & Herman, Inc., 6 Church St.

Phenacetin (*see Acetphenetidin*)

Phenenthrin

N. Y., New York City
Barrett Co., 17 Battery Place

Phenol

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Conn., Stamford
American Synthetic Color Co.
Ga., Savannah
Antwerp Naval Stores Co.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Commercial Acid Co., Boatmen's Bank Bldg.
Lambert Chemical Co., Railway Exchange Bldg.
Mallinckrodt Chemical Works, 3600 N. 2d St.
Monsanto Chemical Works, 1800 S. 2d St.
N. J., Newark
American Synthetic Dyes, Inc.
N. Y., Albany
Albany Chemical Co.
N. Y., Brooklyn
Cresol Chemical Co., 10 Van Buren St.
N. Y., New York City
Aetna Explosives Co., Inc., 120 Broadway
*Alexander & Co., Inc., C. S., 61 Broadway
Barrett Co., 17 Battery Place
Butterworth-Judson Co., 61 Broadway
Campbell & Co., John, 75 Hudson St.
Chemical Co. of America, Inc., 28 Platt St.
DuPont Chemical Works, 120 Broadway
Edgertyn Aniline Corp., 118 William St.
Eimer & Amend, 205–211 Third Ave.
*Fuerst Bros. & Co., 2 Stone St.
Fuller & Co., Ralph L., 4 Rector St.
*Grosche, Bruno, 4 Jones Lane
*Herman & Herman, Inc., 6 Church St.
Hirsh & Son, L., 368 Greenwich St.
*Klipstein & Co., A., 644 Greenwich St.
*Lehn & Fink, Inc., 120 William St.
Marden, Orth & Hastings Co., 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 244 Madison Ave.
National Gum & Mica Co., 59th St. and 11th Ave.
New Jersey Products, Inc., 165 Broadway
*Nitrate Agencies Co., 104 Pearl St.
*Schiefflein & Co., W. H., 170 William St.
*Van Brunt & Co., Inc., J. A., 114 John St.
White Tar Co., Cliff and John Sts.
*Williamson & Co., 120 Broadway
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Syracuse
Semet-Solvay Co.
N. Y., Wappingers Falls
Standard Aniline Products, Inc.
Ohio, Cincinnati
Chatfield Mfg. Co., The
Pa., Carnegie
Aetna Chemical Co.
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Lock Haven
Stanley Aniline Chemical Works, Inc.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Smith, Kline & French Co., 431 Arch St.
R. I., Providence
*Lewis, John D., Turks Head Bldg.

Phenol, Synthetic

N. Y., New York City
Barrett Co., The, 17 Battery Place

Phenol, Synthetic, U. S. P.

Ill., Chicago
Lewis Mfg. Co., F. J., 2500 S. Robey St.

Phenol, U. S. P.

Mo., St. Louis
Monsanto Chemical Works, 1800 S. 2d St.
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
Barrett Co., The, 17 Battery Place
Ohio, Cincinnati
Chatfield Mfg. Co., 3d and Plum Sts.

Phenolphthalein

Mo., St. Louis
Monsanto Chemical Works, 1800 S. 2d St.
N. J., Camden
Waverly Chemical Co., 6th, Everett and Atlantic Ave.
N. Y., New York City
*Chromos Chemical Co., Inc., Aeolian Hall
*Merck & Co., 45 Park Place
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Schenectady
Organic Products Corp.

Phenylnaphthylamine, Alpha

N. Y., New York City
*Geisenheimer & Co., 134 Cedar St.

Phenylendiamin, Para

N. Y., Wappingers Falls
Standard Aniline Products, Inc.

Phenylene Diamine, Para

N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
*Chemical Co. of America, 28 Platt St.
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
New Jersey Products, Inc., 165 Broadway

Phenylenedamine, Para, Base

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Phosgene

Fla., Jacksonville
Florida Wood Products Co.
N. Y., New York City
*Hemingway, Inc., Frank, 115 Broadway

Phosphate Rock

Ark., Little Rock
Arkansas Fertilizer Co.
Fla., Lakeland
Lakeland Phosphate Co.
Fla., Pierce
Pierce Phosphate Co.
Ill., Chicago
Swift & Co., Union Stock Yards
Md., Baltimore
United States Fertilizer Co., Phoenix Bldg.
N. Y., Mechanicsville
Werner Extract Co.
N. Y., New York City
American Agricultural Chemical Co., 2 Rector St.
American Cyanamid Co., 511 Fifth Ave.
International Agricultural Corp., 165 Broadway
Marden, Orth & Hastings Co., 61 Broadway
*Mortimer & Co., 68 Beaver St.
Prairie Pebble Phosphate Co., 165 Broadway
Va., Richmond
Virginia-Carolina Chemical Co.

Phosphate of Soda (*see Sodium Phosphate*)

Phospho Copper

N. Y., New York City
Coignet Chemical Products Co., Inc., 17 State St.
Goldschmidt-Thermit Co., 120 Broadway

Phosphor Tin, 5% Phos.

N. Y., New York City
Goldschmidt-Thermit Co., 120 Broadway

Phosphorus

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
General Chemical Co., 25 Broad St.
*Philipp Bros., Inc., 29 Broadway
*Riker, J. L. & D. S., 80 Maiden Lane
Warner Chemical Co., 52 Vanderbilt Ave.
White Tar Co., 6 Cliff St.
N. J., Masonville
Rancocus Chemical Works
Pa., Easton
Baker & Adamson Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.

Phosphorus, Amorphous

N. Y., New York City
*Campbell, C. W., 11 Cliff St.

Phosphorus Sesquisulphide

N. Y., New York City
*Campbell, C, W., 11 Cliff St.
*Graham, Hinkley, & Co., 135 Front St.

Phthalic Anhydride

Cal., Berkeley
Catalytic Chemical Co., 3d and Bancroft Sts.
N. Y., Hastings-on-Hudson
*Zinsser & Co.
N. Y., Monticello
Mont Color & Chemical Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
N. Y., Ossining
Ossining Chemical Works

Pigments (*see also Colors, Dry*)

England, Essex, Loughton
Madderton & Co., Ltd.
N. Y., New York City
Harrison Works, 80 Maiden Lane
Heller & Merz Co., 505 Hudson St.

Pine Tar (*see Tar, Pine*)

Pitch

Ga., Savannah
Antwerp Naval Stores Co.
National Rosin Oil & Size Co.
Southern Oil & Chemical Co.
England, Liverpool
Brazendals & Co., 37 Leeds St.
La., New Orleans
American Turpentine & Tar Co.
N. Y., New York City
*Casey, John A., & Co., 148 Maiden Lane
DuPont Chemical Works, 120 Broadway
Marden, Orth & Hastings Co., 61 Broadway
*Scheel, William H., 159 Maiden Lane
*Strohmeyer & Arpe Co., 139 Franklin St.
United Naval Stores Co.

Pitch, Burgundy

N. Y., New York City
*Lamson & Bro., John L., 80 Maiden Lane
Zobel Co., Inc., 38 Water St.

Pitch, Burgundy, Imitation

Ga., Savannah
Southern Oil & Chemical Co.

Pitch, Candle

N. Y., New York City
*Lamson & Bro., John L., 80 Maiden Lane

Pitch, Cottonseed

N. Y., New York City
*Lamson & Bro., John L., 80 Maiden Lane

Pitch, Caulking and Ship

Ga., Savannah
Southern Oil & Chemical Co.

Pitch, Coal Tar

England, Liverpool
Brazendals & Co., 37 Leeds St.
Ohio, Cincinnati
Chatfield Mfg. Co., The
N. Y., New York City
Barrett Co., 17 Battery Place
N. Y., Syracuse
Semet-Solvay Co.

Pitch, Roofing

N. Y., New York City
DuPont Chemical Works, 120 Broadway
Barrett Co., 17 Battery Place
N. Y., Syracuse
Semet-Solvay Co.

Pitch, Stearine

N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
*Lamson & Bro., John L., 80 Maiden Lane

Pitch, Waterproof

N. J., Elizabeth
Bayway Chemical Co.

Plaster of Paris

Ill., Chicago
United States Gypsum Co., 205 W. Monroe St.
N. Y., New York City
King & Co., J. B., 17 State St.
Rock Plaster Mfg. Co., 381 4th Ave.
Wash., Tacoma
Pacific Coast Gypsum Co.

Plastics and Elastics

Ill., Chicago
Redmanol Chemical Co., 636 W. 22d St.
N. J., Bloomfield
Condensite Co. of America
N. Y., New York City
DuPont de Nemours & Co., E. I., 725-727 Broadway
General Bakelite Co., 2 Rector St.
Ohio, Akron
Goodyear Tire & Rubber Co.

Platinum

Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
*Goldsmith Bros. Smelting & Refining Co., Madison and Wabash Aves.
*Sargent & Co., E. H., 125 W. Lake St.

Platinum—*cont.*

Mo., St. Louis
*Heil Chemical Co., Henry, 210–214 S. Fourth St.
N. J., Newark
*American Platinum Works, 231 New Jersey R. R. Ave.
*Baker & Co., Inc., Murray and Austin Sts.
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
*Baker & Co., Inc., 30 Church St.
*Eimer & Amend, 205–211 Third Ave.
Engelhard, Charles, 50 Church St.
Palo Co., 90 Maiden Lane
U. S., Metal Refining Co., 42 Broadway
U. S. Smelting Co., Inc., 120 Broadway
Ohio, Columbus
Laboratories Supply Co.
Pa., Malvern
*Bishop & Co., J., Platinum Works
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
Scientific Materials Co., 717–719 Forbes St.

Platinum (Scrap)

Conn., Hartford
Ney Co., J. M.

Platinum, Bichloride, Dry

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Plumbago

N .Y., New York City
.*Dunn & Kruse, 53 Park Row
*Fuerst Bros. & Co., 2 Stone St.

Podophyllin

N. Y., Norwich
Norwich Pharmacal Co.

Potash (*see Potassium Carbonate and also Potassium Salts*)

Potash, Pearl Ash (*see Potassium Carbonate*)

Potash, Prussiate (*see Potassium Ferrocyanide*)

Potassium Aluminium Sulphate

Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
England, Liverpool
Haddock, Parker & Co., 14 Chapel St.
Ill., Chicago
Fuller & Fuller, 235 W. Randolph St.
Metal Products Co., 100 S. Jefferson St.
Mass., Boston
Cochrane Chemical Co., 40 Central St.
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Merrimac Chemical Co., 32 Broad St.
Mo., St. Louis
*Heil Chemical Co., Henry, 210–214 S. 4th St.
N. J., Trenton
Utah Potash Co.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Campbell, C. W., 11 Cliff St.
General Chemical Co., 25 Broad St.
*Klipstein & Co., A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Mutual Chemical Co. of America, 55 John St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Van Brunt & Co., Inc., J. A., 114 John St.
*Wood, Inc., J. Early, 21 Platt St.
*Philipp Bros., Inc., 29 Broadway
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., Electric Bldg.
Ohio, Cincinnati
Jarecki Chemical Co.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road
Lennig & Co., Charles, 112 S. Front St.
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
*Thomas Co., Arthur H., W. Washington Square

Potassium Antimoniate

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Potassium Bicarbonate

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Marden, Orth & Hastings Co., 61 Broadway
McKesson & Robbins, 91 Fulton St.
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
*Schieffelin & Co., 170 William St.
White Tar Co., 6 Cliff St.

Potassium Bicarbonate—*cont.*

Pa., Philadelphia
Cooper, T. G., & Co., 47–49 N. 2d St.
Powers-Weightman-Rosengarten Co.

Potassium Bicarbonate, Cryst. U. S. P.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Potassium Bioxalate

England, London
Berk & Co., Ltd., F. W., Fenchurch
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Katzenbach & Bullock Co., 100 William St.
Roessler & Hasslacher Chemical Co., 100 William St.

Potassium Bisilicate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Potassium Bisulphite

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
General Chemical Co., 25 Broad St.
Roessler & Hasslacher Chemical Co., 100 William St.

Potassium Bromate

Mich., Midland
Dow Chemical Co.

Potassium Bromide

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
Mich., Midland
Dow Chemical Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Heyden Chemical Works, 135 William St.
National Aniline & Chemical Co., 244 Madison Ave.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Schenectady
Organic Products Corp., 469 State St.
W. Va., Malden
Dickinson Co., J. Q.

Potassium Carbonate

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
England, Liverpool
Haddock Parker & Co., 14 Chapel St.
England, London
Berk & Co., Ltd., F. W., Fenchurch Ave.
Ill., Chicago
Armour Fertilizer Works
N. J., Camden
Waverly Chemical Co., 6th, Everett and Atlantic Aves.
N. J., Trenton
Utah Potash Co.
Nevada, Reno
Neo Mfg. Co., P. O. Box 672
N. Y., Brooklyn
Highfield, John W., 248 N. 10th St.
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Chemical Importing & Mfg. Co., 90 West St.
Cooper & Co., Charles, 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
Freeman & Co., R. B., 96 Wall St.
Innis, Speiden & Co., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
*Peters, White & Co., 55 John St.
Philip Bros., & Co., 29 Broadway
Van Brunt & Co., Inc., J. A., 114 John St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., 317–323 Electric Bldg.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Potassium Chlorate

Cal., Pittsburgh
Great Western Electrochemical Co.
Ill., Chicago
Metal Products Co., 100 S. Jefferson St.
Mass., Boston
*Linder & Meyer, 89 State St.
Mich., Bay City
North American Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Campbell, C. W., 11 Cliff St.
*Chemical Importing Mfg. Co., 90 West St.
Doherr, Grimm & Co., 87 Gold St.
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
Lehn & Fink, Inc., 120 William St.

Potassium Chlorate—*cont.*

N. Y., New York City—cont.
Marden, Orth & Hastings Co., 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*Riker, J. L. & D. S., 80 Maiden Lane
*Schieffelin & Co., 170 William St.
*Van Brunt & Co., Inc., J. A., 114 John St.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Niagara Falls
National Electrolytic Co.
R. I., Providence
*Lewis, John D.

Potassium Chlorate, Crystals, Tech.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Potassium Chloride

Cal., Los Angeles
American Trona Corp.
Del., Wilmington
Hercules Powder Co.
N. J., Camden
Waverly Chemical Co., 6th, Everett and Atlantic Aves.
N. Y., New York City
*Baker & Bro., H. J., 80 Maiden Lane
*Battelle & Renwick, 163 Front St.
*Fuerst Bros. & Co., 3 Stone St.
*Heller, Hirsh & Co., 62 William St.
*Klipstein & Co., A., 644 Greenwich St.
Pacific Coast Borax Co., 100 William St.
*Peters, White & Co., 55 John St.
*Salomon & Co., H. H., 88 Wall St.
*Taylor Commission Co., Geo. F., 80 Pine St.

Potassium Chromate

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
*Klipstein, A., & Co., 644 Greenwich St.
*Merck & Co., 45 Park Place
*Rockhill & Vietor, 22 Cliff St.
*Squibb, E. R., & Sons
Ohio, Columbus
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Potassium Citrate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
*Pfizer & Co., Chas., 81 Maiden Lane

Potassium Cyanide

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
Metal Products Co., 100 S. Jefferson St.
Rhodes & Co., James H., 157 Austin Ave.
Mass., New Bedford
Davis Chemical Works, H. V.
Mo., St. Louis
Mallinckrodt Chemical Co., 3600 N. 2d St.
N. Y., New York City
American Cyanamid Co., 511 Fifth Ave.
Cooper & Co., Charles, 194 Worth St.
*Klipstein & Co., A., 644 Greenwich St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
Roessler & Hasslacher Chemical Co., 100 William St.
*Tennant Sons Co., C., 110 William St.
*Van Brunt & Co., Inc., J. A., 114 John St.
White Tar Co., 6 Cliff St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., Electric Bldg.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Potassium Dichromate

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
N. J., Jersey City
Natural Products Refining Co.
N. Y., New York City
General Chemical Co., 25 Broad St.
*Herman & Herman, Inc., 6 Church St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
McKesson & Robbins, Inc., 91 Fulton St.

Potassium Dichromate—*cont.*

N. Y., New York City—cont.
Mutual Chemical Co. of America, 55 John St.
*Riker, J. L. & D. S., 19 Cedar St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Squibb & Sons, E. R., 80 Beekman St.
White Tar Co., 6 Cliff St.
Ohio, Cleveland
Grasselli Chemical Co.
*Harshaw, Fuller & Goodwin Co., Electric Bldg.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
R. I., Providence
*Lewis, John D.

Potassium Dichromate, Cryst. Tech.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Potassium Ferricyanide

Mo., St. Louis
*Heil Chemical Co., Henry, 210–214 S. 4th St.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
*Rockhill & Vietor, 22 Cliff St.
Squibb & Sons, E. R., 80 Beekman St.
Toch Bros., 320 Fifth Ave.
Ohio, Columbus
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Bower Chemical Mfg. Co., Henry, 29th and Grays Ferry Road
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Potassium Ferrocyanide

England, Liverpool
Haddock Parker & Co., 14 Chapel St.
England, Manchester
*Willcocks & Co., Ltd., H. S., 5 Beaver St.
Mo., St. Louis
*Heil Chemical Co., Henry, 210–214 S. 4th St.
N. Y., Brooklyn
Wiarda & Co. John C., 273 Greene St.
N. Y., New York City
*Freeman & Co., R. B., 96 Wall St.
Merck & Co., 45 Park Place
*Peters, White & Co., 55 John St.
Roessler & Hasslacher Chemical Co., 100 William St.
Squibb & Sons, E. R., 80 Beekman St.
*Van Brunt & Co., Inc., J. A., 114 John St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.

Potassium Fluoride

Ohio, Cleveland
Grasselli Chemical Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Potassium Hydroxide

England, London
Berk & Co., Ltd., F. W., Fenchurch Ave.
Ill., Chicago
Rhodes & Co., James H., 157 Austin Ave.
Neb., Omaha
Potash Products Co.
N. J., Camden
Mechling Bros. & Co.
N. Y., Albany
Mendleson's Sons, A.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Behrend, F., 54 Front St.
*Campbell, C. W., 11 Cliff St.
*Doherr, Grimm & Co., 87 Gold St.
*Fuerst Bros., & Co., 2 Stone St.
*Hill's Sons Co., Edw., 64 Wall St.
*Hirsh & Son, L., 368 Greenwich St.
Hoffman-LaRoche Chemical Works, 440 Washington St.
Hooker Electrochemical Co., 40 Wall St.
*Innis, Speiden & Co., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
*Peters White & Co., 55 John St.
Roessler & Hasslacher Chemical Works, 100 William St.
Squibb & Sons, E. R., 80 Beekman St.
White Tar Co., 6 Cliff St.
N. Y., Niagara Falls
Niagara Alkali Co.
N. Y., Solvay
Solvay Process Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co. 9th and Parrish Sts.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.

Potassium Hypochlorite

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.

Potassium Hypochlorite—*cont.*

N. Y., New York City
Lenz Apparatus Co., Inc., 18 E. 16th St.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711–19 Forbes St.

Potassium Iodide

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
New York Quinine & Chemical Works, 114 William St.
Squibb & Sons, E. R., 80 Beekman St.
Suziki & Co., S., 13 Park Row (Plant: Tokyo, Japan)

Potassium Metabisulphite

England, Wolverhampton
Bailey & Son, William
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Cooper & Co., Chas., 194 Worth St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Schering & Glatz, 150 Maiden Lane

Potassium Muriate (*see Potassium Chloride*)

Potassium Nitrate

Del., Wilmington
DuPont de Nemours Co., E. I.
Ill., Chicago
Thorkildsen-Mather Cø.
Md., Baltimore
*Walter Co., Edw. J., 803 American Bldg.
Mass., Boston
Merrimac Chemical Co., 33 Broad St.
Mo., St. Louis
Whitelaw Bros. Chemical Co.
Neb., Omaha
Potash Products Co.
N. J., Trenton
Utah Potash Co., The
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
*Battelle & Renwick, 80 Maiden Lane
DuPont de Nemours Powder Co., 90 West St.
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
*Knowles, Bradley & Co., 88 Wall St.
Marden, Orth & Hastings Co., 61 Broadway
*Peters, White & Co., 55 John St.
*Suziki & Co., S., 13 Park Row (Plant: Tokyo, Japan)

Potassium Nitrate, Granular, U. S. P.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Potassium Oxalate

England, London, E. C. 3
Berk & Co., Ltd., F. W., 1 Fenchurch Ave.
Pa., Bradford
American Alkali & Acid Co.

Potassium Perchlorate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Potassium Permanganate

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
*Daigger & Co., A., 52–56 W. Kinzie St.
Ill., La Salle
Carus Chemical Co.
N. Y., New York City
*Chromos Chemical Co., Inc., Aeolian Hall
Edgertyn Aniline Corp., 118 William St.
Heyden Chemical Works, 135 William St.
*Klipstein & Co., A., 644 Greenwich St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Wood, Inc., J. Early, 21 Platt St.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Potassium Permanganate, Technical 97-98%:

ll., La Salle
Carus Chemical Works

Potassium Permanganate, U. S. P.

Ill., La Salle
Carus Chemical Works
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Potassium Peroxide

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711–19 Forbes St.

Potassium Phosphate U. S. P.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Potassium Prussiate

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Eissing Chemical Co., (Red) 225 5th Ave.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
Roessler-Hasslacher Chemical Co., 100 William St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Potassium Prussiate, Red (*see Potassium Ferricyanide*)

Potassium Pyrosulphite

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Potassium Salts (*These companies recover Potassium Salts from various sources, natural and otherwise*)

Cal., Agnew
Western Industries Co.
Cal., Borosolvay
Solvay Process Co.
Cal., Chula Vista
Hercules Powder Co.
Cal., Long Beach
International Potash Products Co.
Cal., Los Angeles
National Kelp Products Co.
Oceanic Engineer Co.
Pacific Products Co.
Sirch Electrical & Testing Laboratories
Cal., Owens Lake
California Alkali Co.
Cal., Pasadena
American Products Co.
Cal., Riverside
Riverside Portland Cement Co.
Cal., San Diego
Swift & Co.
Cal., Santa Cruz
Santa Cruz Portland Cement Co.
Cal., Summerland
U. S. Dept. of Agric., Experimental Plant
Cal., Trona
American Trona Corp.
Cal., Wilmington
Diamond Match Co.
Canada, B. C., Queen Charlotte Islands
International Chemical Co.
Canada, Ontario, Gravenhurst
Canadian Potash Corp.
Colo., Montrose
Willnarth, O. Barlow
Ill., Chicago
Armour Fertilizer Works.
Md., Hagerstown
Security Cement & Lime Co.
Mich., Charlotte
*Charlotte Drug Co.
Mo., St. Louis
Alunite Co. of America
Neb., Alliance
Potash Product Co.
Neb., Antioch
American Potash Co.
Nebraska Potash Works Co.
Neb., Hoffman
Potash Products Corp.
Neb., Lakeside
Hord Alkali Product Co.
Neb., Omaha
American Potash Co.
Neb., Sheridan Co.
Western Potash Co.
N. J., Camden
Waverly Chemical Co.
N. J., Trenton
Utah Potash Co.
N. Y., Buffalo
Buffalo Potash & Cement Corp.
N. Y., Jones Point
Kaolin Products Co.
N. Y., New York City
Suziki & Co., S., 13 Park Row (Plant: Tokyo, Japan)
Pa., Stockertown
Atlantic Potash Co.
Okla., Sand Springs
Mid Continent Chemical Co.
Tenn., Kingsport
Clinchfield Portland Cement Corp.
Utah, Marysville
Caraleigh Phosphate & Fertilizer Works
Utah, Salt Lake City
Utah Chemical Co.
Utah, St. Marysvale
Mineral Products Co.

Potassium Silicate

N. Y., New York City
*Feuchtwanger, L., & Co., 54 Fulton t.

Potassium Sulphate

Cal., Santa Cruz
Santa Cruz Portland Cement Co.
England, Accrington
Phoenix Chemical Co., Ltd., Jackson St. Church
Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
La., New Orleans
Standard Guano & Chemical Mfg. Co., Whitney Central Bldg.
N. Y., New York City
Baker & Bro., H. J., 100 William St.
Marden, Orth & Hastings Co., 61 Broadway
*Peters, White & Co., 55 John St.

Potassium Sulphide

N. Y., Brooklyn
Wiarda & Co., John C.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Potassium Sulphite

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711–19 Forbes St.

Potassium Sulphite, Norm

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
Ohio, Columbus
*Laboratory Supply Co., 236 N. 3d St.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711–19 Forbes St.

Potassium Sulphocyanide (*see Potassium Sulphocyanate*)

Potassium Sulphocyanate

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Pl.
Squibb & Sons, E. R., 80 Beekman St.

Potassium Sulphonate, Creosote

N. Y., New York City
Heyden Chemical Works, 135 William St.

Potassium Sulphonate, Guaiacol

N. Y., New York City
Heyden Chemical Works, 135 William St.

Powder Bronze

N. Y., New York City
DuPont Chemical Works, 120 Broadway

Powder Rennet

Mich., Detroit
Digestive Ferments Co.
N. Y., Little Falls
Hansen's Laboratory, Inc., Chr.

Preservative, Rope

N. Y., Buffalo
Cling Surface Co.

Preservative, Wire Cable

N. Y., Buffalo
Cling Surface Co.

Preservative, Wood floor

Mich., Detroit
Trus-Con Laboratories, Caniff Road and G. T. R. R.

Preservatives (*see also Antiseptics, Creosoting, Coatings, Enamel Paints*)

Preservatives, Wood

Ill., Chicago
Lewis Mfg. Co., F. J., 2500 S. Robey St.
N. Y., New York City
DuPont Chemical Works, 120 Broadway

Primuline

Mass., Boston
Jennings & Co., Inc., 93 Broad St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
N. Y., North Tonawanda
Synthetic Products Co.

Prussiates
N. Y., New York City
*Innis, Speiden & Co., 46 Cliff St.

Prussian Blue (*see Blue, Prussian*)

Prussiate of Potash, Red (*see Potassium Ferricyanide*)

Prussiate of Potash, Yellow (*see Potassium Ferrocyanide*)

Prussiate of Soda, Red (*see Sodium Ferricyanide*)

Prussiate of Soda, Yellow (*see Sodium Ferrocyanide*)

Pulp Filter
N. Y., New York City
Schwenker, Inc., W. M., 340–344 E. 92d St.

Pulp Products
N. J., Trenton
Universal Fiber Co.

Pulp Sulphite
Pa., Erie
Hammermill Paper Co.

Pumice Stone
Cal., Los Angeles
Pacific Mineral Products Co.
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
American Pumice Co.
*Rhodes & Co., James H., 157 W. Austin Ave.
N. Y., Brooklyn
*Guisseppe Ferlazzo Co.
*Miner, Thornton Co.
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Chrystal, Chas. B., 11 Cliff St.
*Dunn & Kruse, 53 Park Row
*Waddell, R. J., & Co., 56 Beekman St.
*Whittaker, W. H., Co., 252 Front St.

Purple, Copper
N. Y., New York City
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Pyroxylin Compounds
N. Y., New York City
Arlington Co., The, 725–727 Broadway
DuPont Chemical Works, 120 Broadway

Pyroxylin, Special Solutions
N. Y., New York City
DuPont Chemical Works, 120 Broadway

Pyridine
N. Y., New York City
Barrett Co., 17 Battery Pl.
*Klipstein & Co., A., 644 Greenwich St.

Pyrozone
N. Y., New York City
McKesson & Robbins, Inc., 91 Fulton St.

Pyxol
N. Y., New York City
Barrett Co., 17 Battery Pl.

Quartz
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.

Querbracho Extract (*see Extract Quebracho*)

Quercitron Extract (*see Extract Quercitron*)

Quercitron Solid
N. J., Camden
Taylor, White Extracting Co., Cooper River and Pine St.

Quicksilver (*see Mercury*)

Quinine
N. Y., New York City
*Alexander & Co., Inc., C. D., 61 Broadway
*Fuerst Bros. & Co., 2 Stone St.
*Peters, White & Co., 55 John St.
*Wood, Inc., J. Early, 21 Platt St.

Quinine Sulphate
N. Y., New York City
*Freeman & Co., R. B., 96 Wall St.

Radium Salts
Ill., Chicago
Carnotite Production Co.
N. Y., New York City
*Palo Co., 90–94 Maiden Lane
Pa., Pittsburgh
Radium Chemical Co.

Radium Bromide
Colo., Denver
Chemical Products Co., 612 Majestic Bldg.

Radium Chloride

Colo., Denver
Chemical Products Co., 612 Majestic Bldg.

Reagents for Urinalysis

N. Y., Syracuse
Porter & Clancy, 200 James St.

Red Congo, 4B

Pa., Reading
Althouse Chemical Co.

Red, Indian

N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.

Red, Lithol R

Cal., San Francisco
California Aniline & Chemical Co., 33 Clementina St.

Red, Para

Ill., Chicago
*Stresen-Reuter & Hancock, Inc., 1501 S. Peoria St.
N. Y., New York City
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
N. Y., Glen Falls
Imperial Color Works, Inc.

Red, Venetian

England, Liverpool
Haddock Parker & Co., 14 Chapel St.
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.

Redmanol

Ill., Chicago
Redmanol Chemical Products Co., 626 W. 22d St.

Removers, Collodion (*see Collodion Removers*)

Residuum

Cal., Los Angeles
General Petroleum Corp.
Union Oil Co. of California
Ohio, Toledo
Paragon Refining Co.
Texas, Mineral Wells.
Texas Carlsbad Water Co.

Resinates

N. Y., New York City
*Scheel, Wm. H., 159 Maiden Lane
*Tennant C., Sons & Co., 100 William St.
Toch Bros., 330 5th Ave.
Tenn., Sweetwater
Durex Chemical Works

Resinoids

N. Y., New York City
McKesson & Robbins, 91 Fulton St.
Sharp & Dohme
Pa., Philadelphia
Hance Bros. & White, 62 Callowhill St.

Resins

N. Y., Norwich
Norwich Pharmacal Co.

Resins, Jalap

N. Y., Norwich
Norwich Pharmacal Co.

Resins, Paracumaron

N. Y., New York City
Barrett Co., The, 17 Battery Pl.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.

Resins, Scammony

N. Y., Norwich
Norwich Pharmacal Co.

Resorcin, Crude

N. Y., New York City
Barrett Co., The, 17 Battery Pl.

Resorcin, U. S. P.

N. J., Bound Brook
American Chemical Products Co.
N. Y., Monticello
Mont Color & Chemical Co.
N. Y., New York City
Barrett Co., The, 17 Battery Pl.
Edgertyn Aniline Corp., 118 William St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Republic Trading Co., 80 South St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cincinnati
Fries Bros.

Resorcinol

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Barrett Co., 17 Battery Pl.
Hoffman-La Roche Chemical Works, 440 Washington St.
Pa., Carnegie
Aetna Chemical Co.

Rhodamines

N. Y., Monticello
Mont Color & Chemical Co.

Rhodinol

N. Y., New York City
Florasynth Laboratories, Inc., 231 Pearl St.

Rhotanium

N. Y., New York City
*Palo Co., 90-94 Maiden Lane

Rochelle Salts

England, Accrington
Phoenix Chemical Co., Ltd., Jackson St. Church
N. Y., New York City
*Harshaw, Fuller & Goodwin Co., 100 William St.
National Aniline Chemical Co., Inc., 244 Madison Ave.

Rosanilin

Mo., St. Louis
*Heil, Henry, Chemical Co., 210-214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Pl.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Rosin

Ala., Mobile
Taylor, Loewenstein & Co.
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Horstman, John Co., 685 Bryant Ave.
Fla., Grand Ridge
Singletary, W. J.
Fla., Jacksonville
Peninsular Naval Stores Co.
Ga., Brunswick
Downing Co.
Ga., Savannah
Producers Naval Stores Co.
Standard Naval Stores Co.
Antwerp Naval Stores Co.
London & Savannah Naval Stores Co.
National Rosin Oil & Size Co.
Ky., Louisville
Standard Oil Co.
La., Elizabeth
Producers Turpentine Co.
La., New Orleans
American Turpentine & Tar Co.
Union Naval Stores Co., Whitney Bldg.
La., Onvil
Covington Naval Stores Co.
Md., Baltimore
*Webb & Sons, A. L., 115 E. Lombard St.
Mich., Detroit
Stevens, F. B.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
Casey & Co., J. A., 144 Maiden Lane
*Doggett, Stanley, John and Cliff Sts.
Edgertyn Aniline Corp., 118 William St.
General Naval Stores Co., 90 West St.
*Klipstein & Co., A., 644 Greenwich St.
*Larendon, M. W., 82 Wall St.
*Longman & Martinez, 207 Pearl St.
*Rosin & Turpentine Export Co., 62 Cortland St.
*Scheel, Wm. H., 159 Maiden Lane
*Sealy, Thomas, 142 Front St.
United Naval Stores Co.
*Wood, Inc., J. Early, 21 Platt St.
Zobel Co., Inc., Ernest, 38 Water St.
N. C., Wilmington
National Wood Products Co.
Ohio, Cincinnati
Moore Oil Co., York and McLean Aves.
Texas, New Willard
New Willard Naval Stores Co.
Wis., Milwaukee
Newport Turpentine & Rosin Co., 1112 First National Bank Bldg.

Rosin, Hardening Powder for

Pa., Philadelphia
*Meyer & Sons, J., 480 Bourse Bldg.

Rosin, Powdered

N. Y., New York City
Blanchard, J. A., Co., 30 Church St.
Hillier's R., Son & Co., 100 William St.
Pa., Philadelphia
Good, James
*McIlvaine Bros., 1500 Hamilton St.

Rosin Size

Ga., Savannah
National Rosin Oil & Size Co.
La., New Orleans
American Turpentine & Tar Co.
N. Y., New York City
*Scheel, Wm. H., 159 Maiden Lane

Rosin Size, Soluble

N. Y., New York City
Arabol Mfg. Co., 100 William St.

Rosin, Soap

Ga., Savannah
National Rosin Oil & Size Co.
N. Y., New York City
Blanchard, J. A., & Co., 30 Church St.

Rosophenine, S. G.

N. Y., Cook's Falls
Beaverkill Color & Chemical Co., The

Rubber Cement, Bulk (*see Cement, Rubber, Bulk*)

Rubber, Crude

Cal., San Francisco
Moore, Geo. A., & Co., 212 California Ave.
Mich., Detroit
Mexican Crude Rubber Co., Penobscot Bldg.
N. Y., New York City
*Amsinck, G., & Co., Inc.
*Arnold & Zeiss, 277 Broadway
*Chacon Trading Co., 82–92 Beaver St.
General Rubber Co., Broadway and 58th St.
*Gough, Wallace L., Co., 10 Bridge St.
*Gould Commercial Co., 22 Whitehall St.
*Hagemeyer & Brunn, Produce Exchange
Leaman, W. & A., 14 State St.
Livesey & Co., 198 Broadway
Marquardt & Co., H., Inc., 35 S. William St.
*Maurer, Edw., 80 Maiden Lane
Mecke & Co., 24 State St.
*Meyer & Brown, 35 S. William St.
New York Commerical Co., 20 Vesey St.
*Obalski & Sweeney, 24 Stone St.
*Raw Products Co., 121 Front St.
Rubber Trading Co., 38 Murray St.
*Sembrada & Co., J. S., 129 Front St.
*Soltan, Robert & Co., 75 John St.
Pa., Erie
Continental Rubber Works

Rubber, Hard

Conn., Bridgeport
Canfield Rubber Co., 129 Garden St.
Mass., Andover
Tyer Rubber Co.
Mass., N. Brookfield
Quabang Rubber Co.
N. J., Newark
Rubber & Celluloid Products Co., 56 Ferry St.
N. J., Trenton
Empire Rubber Tire Co.
Home Rubber Co.
Stokes, Jos., Rubber Co.
N. Y., New York City
American Hard Rubber Co., 9 Mercer St.
Vulcanized Rubber Co., 251 4th Ave.
Ohio, Akron
Faultless Rubber Co.
Goodrich Co., B. F.
Goodyear Tire & Rubber Co.
Ohio, Cleveland
Consumers' Rubber Co., 829 Superior Ave., N. W.
R. I., Providence
Davol Rubber Co.
Wis., Milwaukee
Federal Rubber Co.

Rubber Makers' White

N. Y., New York City
Harrison Works, 80 Maiden Lane

Rutile (*see Titanium Dioxide*)

Saccharin

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 S. 2d St.
Monsanto Chemical Works, 1800 S. 2nd St.
N. J., Newark
Verona Chemical Co.
N. Y., Brooklyn
Fahlberg Saccharine Works of America
N. Y., New York City
American Condiments Co., 44 Vesey St.
Edgertyn Aniline Corp., 118 William St.
*Freeman & Co., R. B., 96 Wall St.
Fuller & Co., Ralph I., 4 Rector
Hoffman-La Roche Chemical Works, 440 Washington St.
Merck & Co., 45 Park Place
Organic Products Corp., 469 State St.
N. Y., Ossining
Os ining Chemical Works
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Saccharin, Soluble and Insoluble, U. S. P.

N. Y., Ossining
Ossining Chemical Works

Saffranine

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Salacin

N. Y., New York City
McKesson & Robbins, Inc., 91 Fulton St.

Sal Ammoniac (*see Ammonium Chloride*)

Salol

England, London
American Commerce Co., Ltd., The, 19 St. Bride St.
Ill., Chicago
Laboratory Materials Co., 7404 Calumet Ave.

Salol—*cont.*

Mo., St. Louis
Monsanto Chemical Works, 1800 S. 2d St.
N. Y., New York City
Barrett Co., 17 Battery Place
Edgertyn Aniline Corp., 118 William St.
Heyden Chemical Works, 135 William St.
Marden, Orth & Hastings Co., 61 Broadway
*Wood, Inc., J. Early, 21 Platt St.

Sal Soda (*see Sodium Carbonate*)

Salt (*see also Sodium Chloride*)

N. Y., New York City
Independent Salt Co., 44 Whitehall St.
Pa., Pittsburgh
*Snyder's Sons Co., Inc., A. G., 925 S. Canal St., N. S.

Salt, Bayer 2:8

N. Y., New York City
*Geisenheimer & Co., 134 Cedar St.

Salt Cake (*see Sodium Acid Sulphate*)

Salt, Effervescent

Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.

Salt, G

N. Y., New York City
Chemical Co. of America, 28 Platt St.

Salt, Mining

Mich., Midland
Dow Chemical Co.

Salt, R

N. Y., New York City
Chemical Co. of America, 28 Platt St.

Salt, R 2:3:6

N. Y., New York City
*Geisenheimer & Co., 134 Cedar St.

Salt, Schaeffer's

N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Geisenheimer & Co., 134 Cedar St.

Salts, Soldering

Il., Chicago
Allen Co., L. B., 4545 N. Lincoln Ave.
Chicago Solder Co., 218 N. Union St.
Mass., Boston
Ashley, F. C., & Co., 683 Atlantic Ave.
Mo., St. Louis
Corliss Supply Co., 1906 Olive St.

Saltpetre (*see Potassium Nitrate*)

Saltpetre, Chili (*see Sodium Nitrate*)

Sand, Glass Makers

Ind., Coxville
Acme Glass Sand Co.
Md., Hancock
Pennsylvania Glass Sand Co.
Mich., Detroit
American Silica Co., Dime Bank Bldg.
Mo., Pacific
Pacific Glass Sand Co.
N. J., Bridgeton
Crystal Sand Co.
N. Y., Buffalo
Oneida Lime Co., Ltd., Peoples Bank Bldg.
Ohio, Niles
National Sand & Stone Co.
Ohio, Toledo
Toledo-Owens Glass Sand Co.
Toledo Stone & Glass Sand So.
Pa., Pittsburgh
Pennsylvania Glass Sand Co.
Pittsburgh White Sand Co., Farmers Bank Bldg.

Sand Paper

Mass., Boston
American Glue Co., 121 Beverly St.

Sand, Pure (*see Silica*)

Scarlets, Acid (Wool)

Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Scarlet, Direct Fast

Pa., Philadelphia
*Pennsylvania Color Mfg. Co., 248 Chestnut St.

Scarlet, Double Brilliant

N. Y., Cook's Falls
Beaverkill Color & Chemical Co., The,

Scarlets, Newark

N. Y., New York City
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Scarlets, Ponceau

N. Y., New York City
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Scarlets, 2 R.N.

N. Y., New York City
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.

Selenium

N. Y., New York City
American Smelting & Refining Co., 120 Broadway
*Klipstein & Co., A., 644 Greenwich St.
U. S. Metal Refining Co., 42 Broadway
U. S. Smelting Co., Inc., 120 Broadway
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Serums (*see Chemicals, Pharmaceutical*)

Shellac

Cal., San Francisco
Dill-Crossett, Inc., Postal Telegraph Bldg.
Ill., Chicago
Rhodes & Co., James H., 157 Austin Ave.
Md., Baltimore
*Walter Co., Edw. J., 803 American Bldg.
Mich., Detroit
Berry Bros., Inc.
Detroit White Lead Works, 560 Milwaukee Ave.
N. J., Newark
Murphy Varnish Co.
N. Y., New York City
Androvette & Townsend, 235 Water St.
*Chemical Importing & Mfg. Co., 90 West St.
Kasebier-Chatfield Shellac Co., 175 Pearl St.
Longman & Martinez, 207 Pearl St.
*Marx & Rawolle, 100 William St.
New Jersey Products, Inc., 165 Broadway
Rogers-Pyatt Shellac Co., 81 Water St.
*Scheel, William H., 159 Maiden Lane
Standard Varnish Works, 10 West St.
*Zinsser & Co., Wm., 195 William St.
Pa., Philadelphia
Felton Sibley & Co., 136 N. 4th St.

Silex

N. Y., New York City
*Dunn & Kruse, 53 Park Row
Roessler & Hasslacher Chemical Co., 100 William St.
*Salomon & Bro., L. A., 216 Pearl St.
Ohio, Cleveland
Grassell Chemical Co.

Silica

Cal., Los Angeles
Pacific Mineral Products Co.
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Dill-Crosett, Inc., Postal Telegraph Bldg.
Ill., Chicago
Cudahy Packing Co., 111 W. Monroe St.
*Rhodes & Co., James H., 157 Austin Ave.
United States Silica Co., 410 Peoples Gas Bldg.
N. J., Lincoln
Atlas Mineral Products Co., The
N. J., Trenton
Utah Potash Co., The
N. Y., Brooklyn
*Miner-Edgar Co., 52 Warren St.
N. Y., New York City
*Dunn & Kruse, 53 Park Row
*Hammill & Gillespie, 240 Front St.
International Pulp Co., 41 Park Row
*Innis, Speiden & Co., 46 Cliff St.
Talc Products Co., 11 Pine St.
Pa., Philadelphia
Harbison Walker Refractories Co., Farmers Bank Bldg.

Silicon

Cal., San Francisco
Noble Electric Steel Co., Hewes Bldg.
Ky., Ashland
Ashland Iron & Mining Co.
Mo., St. Louis
Midvale Mining & Mfg. Co., 705 Olive St.
N. Y., New York City
*Roessler & Hasslacher Chemical Co., 100 William St.
*Tennant, Sons & Co., C., 100 William St.
U. S. Alloys Corp., 30 E. 42d St.
N. Y., Niagara Falls
Carborundum Co.
Ohio, Columbus
Bessie Furnace Co.
Ohio, Jackson
Globe Iron Co.
Pa., Pittsburgh
Carnegie Steel Co.

Silicon Carbide

Mass., Cambridge
Exlon Co., The, 156 Sixth St.

Silicon Copper

N. Y., New York City
Goldschmidt Thermit Co., 120 Broadway

Silicon Dioxide (*see Silica*)

Silicon Sulphate

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square

Silk, Artificial

N. Y., New York City
Campbell, Metzger & Jacobson, 923 Broadway
Hirsch Sons, G., 890 Broadway
Ohio, Cleveland
Cleveland Art Silk Co.
Pa., Marcus Hook
American Viscose Co.

Silocel

N. Y., New York City
Celite Products Co., 11 Broadway

Silver

N. J., Maurer
American Smelting & Refining Co., 120 Broadway
N. Y., New York City
American Metal Co., Ltd., 61 Broadway

Silver Cyanide

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Silver Nitrate

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
Hoffman-La Roche Chemical Co., 440 Washington St.
Merck & Co., 45 Park Pl.
Powers-Weightman-Rosengarten Co.

Silver Oxide, U. S. P.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Silver Salts (*see Specific Headings*)

Silver Sulphuret

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Sizings, All Kinds

Md., Baltimore
Bloede, Victor G., Co.
Mich., Huron
Huron Milling Co.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.
N. Y., New York City
Arabol Mfg. Co., 00 William St.
Corn Products Refining Co., 17 Battery Pl.
Edgertyn Aniline Corp., 118 William St.
*Innis, Speiden & Co., 46 Cliff St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
National Gum & Mica Co., 59th St. and 11th Ave.

Soap Makers' Raw Materials

Ill., Chicago
Armour & Co.
*Sethness Co.
Wilson & Co.
N. Y., New York City
American Cotton Oil Co., 27 Beaver St.
*Chiris, Antoine, Co., 20 Platt St.
*Compagnie Morana, 184 Fifth Ave.
*Dodge & Olcott Co., 87 Fulton St.
*Fritzsche Bros., 82 Beekman St.
*Gross & Co., Geo. V., 30 Old Slip Ave.
*Heine & Co., 9 Platt St.
*Hutchinson, D. W., 94 John St.
*Lueders, Geo., & Co., 218 Pearl St.
*Magnus, Maybee & Reynard, 257 Pearl St.
Marden, Orth & Hastings Co., 61 Broadway
*Pfaltz & Bauer, 300 Pearl St.
Plymouth Organic Laboratories, 65 Ann St.
*Rockhill & Vietor, 22 Cliff St.
*Ungerer & Co., 273 Pearl St.
*Van Dyk & Co., 6 Platt St.

Soap, Monoline

Mass., Atlantic
Bosson & Lane

Soapstone

Cal., Los Angeles
Pacific Mineral Products Co.
N. J., Lincoln
Atlas Mineral Products Co., The
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
*Baker, H. J., & Bro., 100 William St.
*Binney & Smith Co., 81 Fulton St.
*Chrystal, Chas. B., 11 Cliff St.
*Dunn & Kruse, 53 Park Row
*Hammill & Gillespie, 240 Front St.
*Salomon, L. A., & Bro., 216 Pearl St.
Talc Products Co., 11 Pine St.
*Whittaker, W. H., Co., 250 Front St.
Tenn., Chattanooga
American Lava Co.

Soda (*see Sodium Carbonate*)

Soda Ash (*see Sodium Carbonate*)

Soda, Caustic (*see Sodium Hydroxide*)

Soda, Crystals (*see Sodium Carbonate*)

Soda, Fused Caustic (*see Sodium Hydroxide, Fused*)

Soda, Powdered Caustic (*see Sodium Hydroxide, Powdered*)

Soda, Sulphuret (*see Sodium Sulphide*)

Soda, Virginia (*see Sodium Carbonate*)

Sodium Acetate

Canada, Montreal, P. Q.
Canadian Electro Products Co., Ltd., 611 Power Bldg.
Mass., Boston
Merrimac Chemical Co., 32 Broad St.
Mich., Detroit
Charcoal Co. of America
N. J., Wallington
Anderson Chemical Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
DuPont Chemical Works, 120 Broadway
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
*Gray & Co., Wm. S., 76 William St.
Kalbfleisch Corp., 31 Union Square, W.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
*Maas & Waldstein Co., 92 William St.
New Jersey Products, Inc., 165 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
*Van Brunt & Co., Inc., J. A., 114 John St.
White Tar Co., 6 Cliff St.
Ohio, Cleveland
Grasselli Chemical Co.
*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Philadelphia
*Fergusson Bros., 109 Chestnut St.
R. I., Providence
*Lewis, John D.

Sodium Acid Sulphate (*see Sodium Bisulphate*)

Sodium Acid Sulphite (*see Sodium Bisulphite*)

Sodium Aluminate

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place
Tock Bros., 320 5th Ave.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.

Sodium Aluminium Sulphate

Ill., Chicago
Victor Chemical Works, 1810 Fisher Bldg.
N. Y., New York City
General Chemical Co., 25 Broadway
Pa., Philadelphia
Pennsylvania Salt Mfg. Co.

Sodium Antimoniate

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Sodium Arsenate

Mass., Boston
Shaw, Jno., & Co.
Mich., Midland
Dow Chemical Co.
N. Y., New York City
*Philipp Bros., Inc., 29 Broadway
*Tennant Sons & Co., C., 100 William St.
Vreeland Chemical Co., 50 Church St.
Pa., Philade phia
Pennsylvania Salt Mfg. Co.

Sodium Benzoate

England, London
American Commerce Co., Ltd., The, 19 St. Bride St.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.
N. J., Newark
Stuart & Co., C. H.
N. Y., New York City
*Chromos Chemical Co., Inc., Aeolian Hall
*Doherr, Grimm & Co., 87 Gold St.
Edgertyn Aniline Corp., 118 William St.
Florasynth Laboratories, Inc., 231 Pearl St.
Heyden Chemical Works, 135 William St.
Hoffman-La Roche Chemical Works, 440 Washington St.
Merck & Co., 45 Park Place
Middlesex Aniline Co., Inc., 149 Broadway

Sodium Benzoate—*cont.*

N. Y., New York City—cont.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Roessler & Hasslacher Chemical Co., 100 William St.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Niagara Falls
Niagara Alkali Co.
Ohio, Sandusky
Hord Color Products Co., The
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Sodium Bicarbonate

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
Armour Fertilizer Works
*Glaser, Crandell Co., 2000 S. Western Ave.
Victor Chemical Works, 1810 Fisher Bldg.
*Merchants Chemical Co., 7 S. Dearborn St.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mich., Detroit
Michigan Alkali Co., Ford Bldg.
Neb., Omaha
Standard Chemical Mfg. Co., 1312 Harney St.
N. Y., Brooklyn
*Highfield, John W., 248 N. 10th St.
Wiarda & Co., John, 273 Green St.
N. Y., New York City
Church & Dwight Co., 27 Cedar St.
*Herman & Herman, Inc., 6 Church St.
*Hill's Sons Co., Edw., 64 Wall St.
*Hirsh & Sons, L., 368 Greenwich St.
Kalbfleisch Corp., 31 Union Square, W.
*Klipstein & Co., A., 644 Greenwich St.
*Meyer, G. A. & E., 59 Maiden Lane
*Nitrate Agencies Co., 102 Pearl St.
*Riker, J. L. & D. S., (Inc.), 19 Cedar St.
*Van Brunt & Co., Inc., J. A., 114 John St.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Syracuse
Solvay Process Co.
Ohio, Cincinnati
American Chemical Co.
Pa., Philadelphia
*Fergusson Bros., 109 Chestnut St.
Pennsylvania Sa t Mfg. Co., Widener Bldg.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Tomson & Co., P. C., 1124 Girard Ave.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
Va., Saltville
Mathieson Alkali Works, Inc., The

Sodium Bicarbonate, U. S. P.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Sodium Bichromate

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Dill-Crosett, Inc., Postal Telegraph Bldg.
Md., Baltimore
Bloede Co., Victor G.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Mass., Worcester
Brewer & Co.
N. Y., New York City
*Campbell, C. W., 11 Cliff St.
Cooper & Co., Charles, 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
Franco-American Chemical Co., Inc., 8 Gold St.
General Chemical Co., 25 Broad St.
*Herman & Herman, Inc., 6 Church St.
Kalbfleisch Corp., 31 Union Square, W.
Kalle & Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
Mutual Chemical Co. of America, 55 John St.
*Nitrate Agencies Co., 102 Pearl St.
*Phillip Bros., Inc., 29 Broadway
Roessler & Hasslacher Chemical Co., 100 William St.
*Van Brunt & Co., Inc., J. A., 114 John St.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Niagara Falls
National Electrolytic Co.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., Electric Bldg.
Sherwin-Williams Co.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road
Foote Mineral Co., Inc., 120 N. 19th St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Sodium Bifluoride

N. Y., New York City
General Chemical Co., 25 Broad St.
Ohio, Cleveland
*Harshaw, Fuller & Goodw n Co.

Sodium Bismuthate

N. Y., New York City
Holz, Herman A., 50 Church St.

Sodium Bisulphate

Mass., Boston
Merrimac Chemical Co., 32 Broad St.
N. Y., New York City
Butterworth-Judson Corp., 61 Broadway
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
Kalbfleisch Corp., 31 Union Square, W.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Road

Sodium Bisulphite

England, Wolverhampton
Bailey & Sons, William
Mass., Boston
United Indigo & Chemical Co., 176 Federal St.
Merrimac Chemical Co., 32 Broad St.
Mass , Worcester
Brewer & Co.
N. J., Camden
Mechling Bros. Mfg. Co.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Farbwerke-Hoechst Co., 122 Hudson St.
General Chemical Co , 25 Broad St.
Holliday, Read & Sons, 160 Franklin St
Kalbfleisch Corp., 31 Union Square, W.
*Klipstein & Co , A., 644 Greenwich St.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Williamson & Co., D. D., 86 Fulton St.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Sodium Borate (*see also Sodium Tetraborate*)

N. Y., New York City
Pacific Coast Borax Co., 100 William St

Sodium Bromate

Mich., Midland
Midland Chemical Co.

Sodium Bromide

Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
N. J., Maywood
American Bromine Co.
N. Y., New York City
Heyden Chemical Works, 135 William St.
National Aniline & Chemical Co., 244 Madison Ave.
N. Y., Schenectady
Organic Products Corp., 469 State St.
W. Va., Malden
Dickinson Co., J. Q.

Sodium Cacodylate

Ill., Chicago
Abbott Laboratories
N. Y., New York City
*Fougera, E. & Co., 90–92 Beekman St.

Sodium Carbolate

Mass., Atlantic
Bosson & Lane

Sodium Carbonate

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
England, Liverpool
Haddock Parker & Co., 14 Chapel St.
Ill., Chicago
Daigger & Co., A., 52–56 W. Kinzie St.
Morton Salt Co., 80 E. Jackson Blvd.
*Merchants Chemical Co., 7 S. Dearborn St.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Merrmac Chemical Co., 32 Broad St.
Mass., Worcester
Brewer & Co.
Mich., Detroit
Michigan Alkali Co.
Mich., Wyandotte
*Voss & Co., J. H.
N. J., Camden
Mechling Bros. Mfg. Co.
N. J., Jersey City
Holbrook Mfg. Co.
N. J., Newark
Central Chemical Co.
Columbus Chrystal Co.

Sodium Carbonate—*cont.*

N. Y., Brooklyn
Wiarda & Co., John C., 259 Green St.
N. Y., New York City
Church & Dwight Co., 27 Cedar St.
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros. & Co., 2 Stone St.
General Chemical Co., 25 Broad St.
*Hill's Sons Co., Edw., 64 Wall St.
*Hirsh & Sons, L., 368 Greenwich St.
Kalbfleisch Corp., 31 Union Square, W.
*Klipstein & Co., A., 644 Greenwich St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Welch, Holme & Clark Co., 381 West St.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Troy
Thompson, Sons & Co., John L.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Ohio, Cincinnati
American Chemical Co.
Pa., Philadelphia
*Ferguson Bros., 109 Chestnut St.
Penn Chemical Works, The, 1322 Washington Ave.
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.
Va., Saltville
Mathieson Alkali Co., Inc.

Sodium Carbonate, Anhydrous

England, London
American Commerce Co., Ltd., The, 19 St. Bride St.
Kan., Hutchinson
Kansas Chemical Mfg. Co.
Md., Baltimore
*Walter Co., Edw. J., 803 American Bldg.
Mass., Boston
*King & Co., E. & F., Inc., 367 Atlantic Ave.
Marble & Co., J. Russell
Mo., St. Louis
Commercial Acid Co., Boatmen's Bank Bldg.
Whitelaw Bros. Chemical Co.
N. Y., Albany
Wander & Son Chemical Co., S., 135 Church St.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
*Campbell, C. W., 11 Cliff St.
*Chemical Importing & Mfg. Co., 90 West St.
*Fuerst Bros. & Co., 2 Stone St.
*Herman & Herman, Inc., 6 Church St.
*Hill's Sons & Co., Edw., 64 Wall St.
*Hirsh & Son, L., 368 Greenwich St.
Kalbfleisch Corp., 31 Union Square, W.
Kalle Color & Chemical Co., 539 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
*Marell Chemical Co., Inc., 25 Beaver St.
*Nitrate Agencies Co., 102 Pearl St.
*Peters, White & Co., 55 John St.
Roessler & Hasslacher Chemical Co., 100 William St.
Van Brunt & Co., Inc., J. A., 114 John St.
*Welch, Holme & Clark, 381 West St.
White Tar Co., 6 Cliff St.
*Williamson & Co., 120 Broadway
*Wing & Evans, 22 William St.
N. Y., Syracuse
Solvay Process Co.
Ohio, Cincinnati
American Chemical Co.
*Winkler & Bros. Co., Isaac, 804 First National Bank Bldg.
Ohio, Cleveland
Clark Co., Fred'k D.
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
*Fergusson Bros., 109 Chestnut St.
Pa., Pittsburgh
Columbia Chemical Co.
Diamond Alkali Co., Wabash Bldg.
*Mortland Chemical Co., 602 Fitzsimons Bldg.
R. I., Providence
*Lewis, John D.
Va., Saltville
Mathieson Alkali Works, Inc., The

Sodium Carbonate, Crystal

Ill., Chicago
Cudahy Packing Co., 111 W. Monroe St.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Roessler & Hasslacher Chemical Co., 100 William St.
N. Y., Troy
Thompson, Sons & Co., John L.
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.

Sodium Carbonate, Monohydrate

N. Y., New York City
Church & Dwight Co., 27 Cedar St.
Industrial Chemical Co., Fifth Ave. Bldg.
N. Y., Syracuse
Solvay Process Co.

Sodium Chlorate

Ill., Chicago
Metal Products Co., 100 S. Jefferson St.
Mich., Bay City
North American Chemical Co.
N. Y., New York City
*Campbell, C. W., 11 Cliff St.
*Chemical Importing & Mfg. Co., 90 West St.
*Fuerst Bros. & Co., 2 Stone St.
*Herman & Herman, Inc., 6 Church St.
Industrial Chemical Co., 200 Fifth Ave.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
*Riker, J. L. & D. S., 19 Cedar St.
Roessler & Hasslacher Chemical Co., 100 William St.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
Pa., Philadelphia
*Andreykovicz & Dunk, 58 N. Front St.
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.
*Lewis, John D., 63 Charles St.

Sodium Chloride, Pure, technical

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
Independent Salt Co., 44 Whitehall St.

Sodium Chloride

Mich., Detroit
Michigan Alkali Co., 1622 Ford Bldg.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
Heyden Chemical Works, 135 William St.
Independent Salt Co., 44 Whitehall St.
*Innis, Speiden & Co., 46 Cliff St.
*Pfizer & Co., Charles, 81 Maiden Lane
*Wing & Evans, 22 William St.
N.Y., Syracuse
Semet Solvay Co.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Pittsburgh
Snyder's Sons Co., Inc., A. G., 925 S. Canal St., N. S.

Sodium Chromate

N. Y., New York City
Mutual Chemical Co. of America, 55 John St.

Sodium Cyanide

Ill., Chicago
Metal Products Co., 100 S. Jefferson St.
N. Y., New York City
American Cyanamid Co.
*Chemical Importing & Mfg. Co
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
McKesson & Robbins, Inc., 91 Fulton St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Van Brunt & Co., Inc., J. A., 114 John St.
*Wood, Inc., J. Early, 21 Platt St.
R. I., Providence
Arnold, Hoffman & Co., Inc.

Sodium Ferricyanide

N. Y., New York City
Marden, Orth & Hastings Co., Inc., 61 Broadway
*Klipstein & Co., A., 644 Greenwich St.
N. Y., Syracuse
Semet-Solvay Co.
Pa., Philadelphia
Bower Chemical Mfg. Co., Henry
W. Va., Saltville
Mathieson Alkali Works, Inc.

Sodium Ferrocyanide

Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.
N. Y., New York City
Marden, Orth & Hastings Co., Inc., 61 Broadway
N. Y., Syracuse
Semet-Solvay Co.
Pa., Philadelphia
Bower Chemical Mfg. Co., Henry
R. I., Providence
Arnold, Hoffman & Co., Inc.
W. Va., Saltville
Mathieson Alkali Works, Inc.

Sodium Fluoride

N. Y., Brooklyn
Highfield, John W., 248 N. 10th St.
Wiarda & Co., John C., 273 Green St.

Sodium Fluoride—*cont.*

N. Y., New York City
General Chemical Co., 25 Broad St.
*Klipstein & Co., A., 644 Greenwich St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., Electric Bldg.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.

Sodium Fluosilicate

Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.

Sodium Formate

N. Y., New York City
General Chemical Co., 25 Broad St.
*Klipstein & Co., A., 644 Greenwich St.

Sodium Hydroxide

Cal., Pittsburgh
Great Western Electrochemical Co.
Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
England, Smithy Bridge, near Rochdale,
Dearhead Chemical Co.
Ill., Chicago
Columbia Chemical Works of Chicago, 220 W. Huron St.
*Daigger & Co., A., 52–46 W. Kinzie St.
Metal Products Co., 100 S. Jefferson St.
*Merchants Chemical Co., 7 S. Dearborn St.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
*Walter Co., Edw., 803 American Bldg.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Mich., Detroit
Michigan Alkali Co., Ford Bldg.
Solvay Process Co., River St.
Mich., Midland
Dow Chemical Co.
Mo., St. Louis
Commercial Acid Co., Boatmen's Bank Bldg.
N. J., Camden
Mechling Bros. Mfg. Co.
N. Y., Albany
*Mendelson's Sons, A.
*Wander & Son Chemical Co., S., 135 Church St.
N. Y., Brooklyn
*Wiarda & Co., John C., 273 Green St.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
Burroughs & Co., Jas. S., 56 Pine St.
Butterworth-Judson Corp., 61 Broadway
*Campbell, C. W., 11 Cliff St.
*Chemical Importing & Mfg. Co., 90 West St.
Cooper & Co., Charles, 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros. & Co., 2 Stone St.
General Chemical Co., 25 Broad St.
*Harshaw, Fuller & Goodwin Co., 100 William St.
*Herman & Herman, Inc., 6 Church St.
*Hill s Sons Co., Edw., 64 Wall St.
*Hirsh & Son L., 368 Greenwich St.
Hooker Electrochemical Co., 40 Wall St.
Industrial Chemical Co., 200 Fifth Ave.
*Innis, Speiden & Co., Inc., 46 Cliff St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
*Marell Chemical Co., Inc., 25 Beaver St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
*Nitrate Agencies Co., 102 Pearl St.
*Peters, White & Co., 55 John St.
*Riker, J. L. & D. S., 19 Cedar St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Tennant & Co., Sons, C., 100 William St.
*Van Brunt & Co., Inc., J. A., 114 John St.
*Welch, Holme & Clark Co., 381 West St.
*Williamson & Co., 120 Broadway
*Wing & Evans, 22 William St.
*Wood, Inc., J. Early, 21 Platt St.
N. Y., Niagara Falls
Castner Electrolytic Alkali Co.
Niagara Alkali Co.
Niagara Smelting Corp.
N. Y., Syracuse
Solvay Process Co.
Ohio, Cincinnati
American Chemical Co.
Globe Chemical Co., 1135 Regent Ave.
*Winkler & Bro. Co., Isaac, 804 First National Bank Bldg.

Sodium Hydroxide—*cont.*

Ohio, Cleveland
Clark Co., Fred G., 1099 W. 11th St., N. W.
Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Philadelphia
Dill & Collins Co., Richmond and Tioga Sts.
*Fergusson Bros., 109 Chestnut St.
Hollingsworth & Peterson, Lafayette Bldg.
Penn Chemical Works, 1322 Washington Ave.
Pennsylvania Salt Mfg. Co., Widener Bldg.
Pa., Pittsburgh
Columbia Chemical Co.
*Mortlandt Chemical Co., 602 Fitzsimons Bldg.
Republic Chemical Co., (Coraopolis)
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D., 63 Charles St.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.
Va., Saltville
Mathieson Alkali Works, Inc., The
W. Va., Charleston
Rollin Chemical Co., Inc.
Scotland, Glasgow
Barr, Ltd., James C., 27 Blythswood Square

Sodium Hydroxide, Fused

Pa., Pittsburgh
Republic Chemical Co., Inc., P. O. Box 946

Sodium Hydroxide, Powdered

Va., Saltville
Mathieson Alkali Works, Inc., The

Sodium Hypochlorite

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Hooker Electrochemical Co., 40 Wall St.
Niagara Alkali Co., 18 E. 41st St.
Pa., Philadelphia
Pennsylvania Salt Mfg. Co., Widener Bldg.

Sodium Hypophosphite

Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
Merrimac Chemical Co., 32 Broad St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
General Chemical Co., 25 Broad St.
Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Sodium Hyposulphite (*see Sodium Thiosulphate*)

Sodium Iodide

N. Y., New York City
Suziki & Co., S., 13 Park Row (Plant: Tokyo, Japan)

Sodium Methylarsenate

N. Y., New York City
*Fougera & Co., E., 90–92 Beekman St.

Sodium Naphthaline Beta Sulphonate

N. Y., New York City
*Geisenheimer & Co., 134 Cedar St.

Sodium Naphthionate

Ill., Quincy
Monroe Color & Chemical Co.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway

Sodium Nitrate

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Del., Wilmington
DuPont de Nemours Co., E. I.
Ga., Savannah
Alexander & Co., Inc., G. S.
Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
La., New Orleans
New Orleans Acid & Fertilizer Co., Gretna Lane
Standard Guano & Chemical Mfg. Co., Whitney Central Bldg.
Md., Baltimore
*Walter Co., Edw. J., 803 American Bldg.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., Buffalo
Buffalo Fertilizer Works, Marine National Bank Bldg.

Sodium Nitrate—*cont.*

N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway
Baker & Bro., H. J., 100 William St.
Balfour, Williamson Co., 43 Exchange Place
*Battelle & Renwick, 80 Maiden Lane
Burroughs & Co., Jas. S., 56 Pine St.
*Chemical Importing & Mfg. Co., 90 West St.
*Grace & Co., W. R., 1 Hanover Square
*Heller, Hirsh & Co., 62 William St.
*Hemingway, Inc., Frank, 115 Broadway
*Klipstein & Co., A., 644 Greenwich St.
*Knowles-Bradley Co., 88 Wall St.
Marden, Orth & Hastings Co., 61 Broadway
*Mortimer & Co., 68 Beaver St.
*Peters, White & Co., 55 John St.
Roessler & Hasslacher Chemical Co., 100 William St.
*Van Brunt & Co., Inc., J. A., 114 John St.
*Wessel, Duval & Co., 25 Broad St.
*Taylor Commission Co., Geo. F., 80 Pine St.
N. Y., Chauncey, Westchester Co.
Stauffer Chemical Co.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.
Va., Richmond
Virginia-Caroline Chemical Co.

Sodium Nitrite

Mass., Boston
Merrimac Chemical Co., 33 Broad St.
N. Y., New York City
Butterworth-Judson Corp., 61 Broadway
General Chemical Co., 25 Broad St.
Heller & Merz, 503 Hudson St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
*Tennant, C., Sons & Co., 100 William St.
White Tar Co., 6 Cliff St.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road
R. I., Providence
*Lewis, John D.

Sodium Nitrite, Technical

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Sodium Oxalate

N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
Pa., Bradford
American Alkali & Acid Co.

Sodium Perborate

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Kalle Color & Chemical Co., 530 Canal St.
Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cleveland
Grasselli Chemical Co.

Sodium Permanganate

N. Y., New York City
*Chromos Chemical Co., Inc., Aeolian Hall
Cooper & Co., Charles, 194 Worth St.
Kalbfleisch Corp., 31 Union Square, W.
*Klipstein & Co., A., 644 Greenwich St.

Sodium Peroxide

N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.

Sodium Phosphate, Secondary

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
England, Manchester
Victors, Ltd., Victoria Bldg.
Ill., Chicago
Armour Fertilizer Works, Union Stock Yards
Laboratory Materials Co., 7404 Calumet Ave.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
Merrimac Chemical Co., 32 Broad St.

Sodium Phosphate, Secondary —*cont.*

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
N. J., Camden
Mechling Bros. Mfg. Co.
N. Y., Kingston
Nitrated Chemical Co.
N. Y., New York City
Bowker Chemical Co., 60 Trinity Place
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broadway
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
*Pfaltz & Bauer, Inc., 300 Pearl St.
Roessler & Hasslacher Chemical Co., 100 William St.
Warner Chemical Co., 141 Broadway
*Wilckes-Martin-Wilckes Co., 135 William St.
Ohio, Cleveland
Grasselli Chemical Co.
*Harshaw, Fuller & Goodwin Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.

Sodium Phosphate, Tertiary

England, Manchester
*Hall, George D. A., 33 Mosley St.
Minn., Minneapolis
Columbia Chemical Co.
Mo., St. Louis
Provident Chemical Works, 8011 Idaho Ave.
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
General Chemical Co., 25 Broad St.
Roessler & Hasslacher Chemical Co.
Warner Chemical Co., 52 Vanderbilt Ave.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Pittsburgh
*Mortlandt Chemical Co., 602 Fitzsimons Bldg.

Sodium Phosphate, Tri (*see Sodium Phosphate, Tertiary*)

Sodium Prussiate

England, Liverpool
Haddock Parker & Co., 14 Chapel St.
England, Manchester
*Willcocks & Co., Ltd., H. S., 5 Beaver St.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Katzenbach & Bullock Co., 100 William St.
Marden, Orth & Hastings Co., 61 Broadway
*Peters, White & Co., 55 John St.
*Tennant Sons & Co., C., 100 William St.
*Van Brunt & Co., Inc., J. A., 114 John St.
White Tar Co., 6 Cliff St.
*Wood, Inc., J. Early, 21 Platt St.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.
*Lewis, John D.

Sodium Prussiate, Yellow

N. Y., New York City
*Campbell, C. W., 11 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
Pa., Philadelphia
Bower Chemical Mfg. Co., Henry, 29th and Grays Ferry Road.

Sodium Pyrophosphates

England, Manchester
Victors, Ltd., Victoria Bldg.

Sodium Resinate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Sodium Salicylate

England, London
American Commerce Co., Ltd., The, 19 St. Bride St.
Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
Monsanto Chemical Works, 1800 S. 2d St.
N. Y., New York City
Barrett Co., 17 Battery Place
Edgertyn Aniline Corp., 118 William St.
Heyden Chemical Works, 135 William St.
Marden, Orth & Hastings Co., 61 Broadway
N. Y., Syracuse
Semet-Solvay Co.

Sodium Sesquicarbonate

N. Y., Syracuse
Solvay Process Co.

Sodium Silicate

Ill., East St. Louis
Illinois Mineral Mining Co.
Ill., Chicago
Central Commercial Co.
Merchants Chemical Co., 7 S. Dearborn St.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Mo., St. Louis
Whitelaw Bros. Chemical Co.
N. J., Trenton
Utah Potash Co.
N. Y., New York City
Butterworth-Judson Corp., 61 Broadway
Cooper & Co., Charles, 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros. & Co., 2 Stone St.
General Chemical Co., 25 Broad St.
Kalbfleisch Corp., 31 Union Square, W.
*Marell Chemical Co., Inc., 25 Beaver St.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Philadelphia
Philadelphia Quartz Co., 121 S. 3d St.

Sodium Silico-Fluoride

Md., Baltimore
Davison Chemical Co.
N. Y., New York City
Franco-American Chemical Co., Inc., 8 Gold St.
Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.

Sodium Stannate

N. Y., New York City
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.

Sodium Succinate

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Sodium Sulphanilate

N. Y., New York City
Marden, Orth & Hastings Co., 61 Broadway

Sodium Sulphate

Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Western Chemical Mfg. Co.
La., New Orleans
Standard Guano & Chemical Mfg. Co., Whitney Central Bldg.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Merrimac Chemical Co., 32 Broad St.
Mo., St. Louis
Commercial Acid Co., Boatmen's Bank Bldg.
Mo., Kansas City
National Zinc Co., Packers Station
N. Y., Buffalo
Contact Process Co., Abbott Road. near Lee St.
N. Y., New York City
*Beer, Sondheimer & Co., 61 Broadway
Butterworth-Judson Co., 61 Broadway
General Chemical Co., 25 Broad St.
*Heller, Hirsh & Co., 62 William St.
Kalbfleisch Corp., 31 Union Square, W.
Southern Cotton Oil Co., 120 Broadway
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Ohio, Sandusky
Jarecki Chemical Co.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road
Pennsylvania Salt Mfg. Co., Widener Bldg.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Scotland, Glasgow
Barr, Ltd., James C., 27. Blythswood Square

Sodium Sulphide

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Chemical Products Co., 612 Majestic Bldg.
Ill., Chicago
Chicago Copper & Chemical Co., 111 W. Jackson Place

Sodium Sulphide—*cont.*

Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Merrimac Chemical Co., 32 Broad St.
N. Y., Buffalo
Contact Process Co., Abbott Road, near Lee St.
N. Y., New York City
*Chemical Importing & Mfg. Co., 90 West St.
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
*Peters, White & Co., 55 John St.
*Van Brunt & Co., Inc., J. A., 114 John St.
Ohio, Cincinnati
Globe Chemical Co., 1135 Regent Ave.
Ohio, Cleveland
Grasselli Chemical Co.
W. Va., Charleston
Rollin Chemical Co., Inc.
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Sodium Sulphite

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., Albany
Albany Chemical Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
Katzenbach & Bullock Co., 100 William St.
Williamson, D. D., Co., 86 Fulton St.
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Square

Sodium Sulphite, Cryst.

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Sodium Sulphocarbolate

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Sodium Tetraborate

Cal., Oakland
Pacific Coast Borax Co.
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
National Borax Co., 681 Market St.
United States Borax Co., 681 Market St.
Colo., Denver
Denver Fire Clay Co., 1742 Champ St.
England, Liverpool
Haddock Parker & Co., 14 Chapel St.
Ill., Chicago
Barrett & Co., M. L., 233 W. Lake Ave.
Thorkildsen, Mather Co., Union Stock Yards, Harris Trust Bldg.
Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
N. Y., New York City
Archibald & Lewis Co., 124 Front St.
*Baker & Bro., H. J., 100 William St.
Cooper & Co., Charles, 194 Worth St.
*Doggett, Stanley, John and Cliff Sts.
Edgertyn Aniline Corp., 118 William St.
*Fuerst Bros. & Co., 2 Stone St.
General Chemical Co., 25 Broad St.
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
*Innis, Speiden & Co., 46 Cliff St.
*Klipstein & Co., A., 644 Greenwich St.
*Lathrop & Co., Inc., H. R., 200 Water St.
*McKesson & Robbins, Inc., 91 Fulton St.
Pacific Coast Borax Co., 100 William St.
*Pfizer & Co., Charles, 81 Maiden Lane
White Tar Co., 6 Cliff St.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
R. I., Providence
Arnold, Hoffman & Co., 55 Canal St.

Sodium Thiosulphate

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
England, London
American Commerce Co., Ltd., The. 19 St., Bride St.

Sodium Thiosulphate—*cont.*

Mass., Boston
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Merrimac Chemical Co., 32 Broad St.
N. Y., Buffalo
Contact Process Co., Abbott Road, near Lee
N. Y., New York City
Cooper & Co., Charles, 194 Worth St.
General Chemical Co., 25 Broad St.
*Klipstein & Co., A., 644 Greenwich St.
*Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co.

Sodium Tungstate

Pa., Primos
Primos Chemical Co.

Soduxite

Ohio, Cincinnati
American Chemical Co., 642 Carr St.

Softeners, Liquid

N. Y., New York City
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Softeners, Textile

N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
National Gum & Mica Co., 59th St. and 11th Ave.
Ohio, Cincinnati
Moore Oil Co.
Pa., Philadelphia
Houghton & Co., E. F., 240 W. Somerset St.
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.

Soilime

N. Y., New York City
American Cyanamid Co., 511 Fifth Ave.

Soluol

N. Y., Syracuse
Semet-Solvay Co.
Pa., Philadelphia
Barrett Mfg. Co., Land Title Bldg.
United Gas Improvement Co., 1514 S. Broad St.

Solvents

N. Y., Brooklyn
*Miner-Edgar Co., 52 Warren St.
N. Y., New York City
DuPont Chemical Co., 120 Broadway
Ohio, Cleveland
Northern Chemical Co., W. 70th near Detroit Ave., N. W.
Ohio, Toledo
Yaryan Naval Stores Co.
Pa., Warren
Warren Chemical Products Co.

Solvent Thinners

N. Y., New York City
DuPont Chemical Works, 120 Broadway

Solveol

N. Y., New York City
Heyden Chemical Works, 135 William St.

Spelter

Ill., Danville
Hegeler Zinc Co.
Ill., La Salle
Matthiessen & Hegeler Zinc Co.
Ill., Peru
Illinois Zinc Co.
Ill. St. Louis
American Zinc Co. of Illinois
Mo., Joplin
Eagle-Picher Lead Co.
N. Y., New York City
American Metals Co., Ltd., 61 Broadway
Electrolytic Zinc Co., 3 S. William St.
New Jersey Zinc Co., 55 Wall St.

Spiegeleisen (*see Ferromanganese*)

Spiegel, Silico

Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Spirit Nigrosine (*see Nigrosine, Spirit*)

Stains (*see also Dyestuffs*)

N. Y., Buffalo
Pratt & Lambert, Inc., 75–97 Tonawanda St.
N. Y., New York City
Berry Bros., 262 Pearl St.

Stains, Varnish

N. Y., New York City
Berry Bros., 262 Pearl St.

Stannic Chloride

N. J., Sewaren
Vulcan Detinning Co.
N. Y., New York City
General Chemical Co., 25 Broad St.
Goldschmidt Detinning Co., 120 Broadway
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Philadelphia
Bower Chemical Mfg. Co., Henry, 29th and Grays Ferry Rd.
Pa., Pittsburgh
Republic Chemical Co., P. O. Box 946

Stannic Oxide

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
Loraine Smelting & Refining Co., 25 N. Dearborn Ave.
Mich., Charlotte
*Charlotte Drug Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Katzenbach & Bullock Co., 100 William St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Roessler & Hasslacher Chemical Co., 100 William St.
N. J., Maurer
American Smelting & Refining Co.
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Stannous Chloride

Mass., Boston
Avery Chemical Co., 88 Broad St.
Merrimac Chemical Co., 32 Broad St.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
Goldschmidt Detinning Co., 60 Wall St.
Kalbfleisch Corp., 31 Union Square, W.
*Klipstein & Co., A., 644 Greenwich St.
*Lengfelt & Co., F. H., 100 Maiden Lane
*Van Brunt & Co., Inc., J. A., 114 John St.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Pittsburgh
Republic Chemical Co., P. O. Box 946
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.

Starch, Soluble

N. Y., New York City
Arabol Mfg. Co., 100 William St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Stearine

Ill., Chicago
Cudahy Packing Co., 111 Monroe St.
Morris & Co., Union Stock Yrads
Swift & Co.
Wilson & Co.
Ky., Louisville
Kentucky Refining Co.
Mass., Boston
New England Rendering Co., Abattoir Grounds Br.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
*Swan & Co., Alden S., 133 Front St.
*Welch, Holme & Clark Co., 381 West St.
Ohio, Cincinnati
American Cotton Oil Co. of Ohio, 443 E. 6th St.
Cincinnati Abattoir Co., 3241 Spring Grove Ave.
Emery Candle Co., 414 Walnut St.
Ohio, St. Barnard
Werk Co., The M., Murray Ave.
Texas, Dallas
Trinity Cotton Oil Co.

Steel Wool

Ill., Chicago
Rhodes & Co., James H., 157 Austin Ave.

Stone, Rotten

Ill., Chicago
*Rhodes & Co., James H., 157 W. Austin Ave.
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.

Stone, Rubbing

Ill., Chicago
*Rhodes, James H., & Co., 157 W. Austin Ave.

Strontium Bromide

Mich., Midland
Dow Chemical Co.
Mo., S. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.
N. Y., New York City
Heyden Chemical Co., 135 William St.

Strontium Carbonate

Cal., Long Beach
Western Chemical Mfg. Co.
N. Y., New York Ci y
*Chemical Importing & Mfg. Co., 90 West St.
Cooper & Co., Charles, 194 Worth St.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Harrison Works, 35th and Grays Ferry Road

Strontium Compounds

Cal., San Francisco
Beckman & Linden Engineering Corp., 415 Balboa Bldg.

Strontium Hydroxide

N. Y., New York City
*Chemical Importing & Mfg. Co., 90 West St.

Strontium Nitrate

Cal., Long Beach
Southern Reduction Co.
Western Chemical Mfg. Co.
Cal., Vernon
Mortimer Co., F. G.
N. Y., New York City
*Chemical Importing & Mfg. Co., 90 West St.
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
Roessler & Hasslacher Chemical Co., 100 William St.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road

Strontium Ore

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Strontium Salicylate

N. Y., New York City
Heyden Chemical Works, 135 William St.

Strophanthin

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Strychnine

Ill., Chicago
Abbott Laboratorie , Ravenswood
Mo. St. Louis
Mallinckrodt Chemical Works, 3600 N. 2d St.

Sugars (*Arabinose, Pure; Dextrose Pure, Lactose, Pure; Inulin, Pure*)

Pa., Philadelphia
H. K. Mulford Co.

Sugar, Beet Residue

Ohio, Cincinnati
*Winkler & Bros. Co., 804 First National Bank Bldg.

Sugar of Milk

Mo., St. Louis
Mallinckrodt Chemical Works, 3600 N. 2nd St.
N. Y., New York City
*Innis, Speiden & Co., 46 Cliff St.
Hoffman-La Roche Chemical Works
N. Y., Bainbridge
National Milk Sugar Co.

Sulphate of Iron (*see Ferrous Sulphate*)

Sulphenethylmethane

N. Y., New York City
National Gum & Mica Co., 59th St. and 11th Ave.

Sulphur

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Moore & Co., George A., 212 California St.
Nevada Sulphur Co., Merchant Exchange Bldg.
San Francisco Sulphur Co., 624 California Ave.
Conn. Stamford
Stamford Rubber Supply Co.
La., Lake Charles
American Sulphur Co.
Md., Baltimore
Thomsen Chemical Co., Race and Winder Sts.
*Walter Co., Edw. J., 803 American Bldg.
Mo., St. Louis
Commercial Acid Co., Boatmen's Bank Bldg.
N. Y., New York City
*Cooper & Co., Charles, 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
General Chemical Co., 25 Broad St.
*Lathrop & Co., H. R., 200 Water St.
*Leggett & Bro., 301 Pearl St.
National Sulphur Co., 80 Maiden Lane
*Parsons & Petit, 63 Beaver St.
Union Sulphur Co., 17 Battery Place
Warner Chemical Co., The, 141 Broadway

Sulphur—*cont.*

Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co., Electric Bldg.
Tenn., Ducktown
Ducktown Sulphur, Copper & Iron Co.
Texas, Freeport
Freeport Sulphur Co.
Va., Richmond
Sulphur Mining & Railroad Co.

Sulphur (Flowers)

Mo., St. Louis
Commercial Acid Co., 1906 Boatmen's Bank Bldg.
Lambert Chemical Co., Railway Exchange Bldg.
N. Y., New York City
*Alexander & Co., Inc., C. S., 61 Broadway

Sulphur Black

N. J., Passaic
*Wolf, Jacques & Co.
N. Y., Kingston
Nitrated Chemicals Co.
N Y., New York City
*Dicks David Co., Inc., 302 Broadway
*Drug & Dyestuff Corp., 120 Broadway
DuPont Chemical Works, 120 Broadway
Edgertyn Aniline Corp., 118 William St.
Marden, Orth & Hastings Co., 61 Broadway
*Williamson & Co., 120 Broadway
Wright Chemical Corp., 38 Park Row
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Sulphur Blue

N. Y., New York City
*Drug & Dyestuff Corp., 120 Broadway
Marden, Orth & Hastings Co., 61 Broadway
*Williamson & Co., 120 Broadway

Sulphur Bronze

N. Y., Cook's Falls
Beaverskill Color & Chemical Co., The

Sulphur Brown

N. Y., Cook's Falls
Beaverskill Color & Chemical Co., The
N. Y., New York City
*Chemical Importing & Mfg. Co., 90 West St.
*Dicks David Co., Inc., 302 Broadway
*Drug & Dyestuff Corp., 120 Broadway
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Sulphur Chloride

Mich., Midland
Dow Chemical Co.
N. Y., Brooklyn
Highfield, John W., 248 N. 10th St.
N. Y., New York City
Cooper, Chas., & Co., 194 Worth St.
*Scheel, William H., 159 Maiden Lane

Sulphur Chloride, Red

Mich., Midland
Dow Chemical Co.

Sulphur Chloride, Yellow

Mich., Midland
Dow Chemical Co.

Sulphur Dioxide

England, Darlington
Parkin, Ness & Co., Quebec St.
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Schwenker, Inc., W. M., 340-343 E. 92d St.

Sulphur Dioxide, Anhydrous

N. J., Bound Brook
King Chemical Co.

Sulphur Dioxide, Liquid

Wis., Marinette
Ansul Chemical Co.

Sulphur, Golden Yellow

N. Y., Cook's Falls
Beaverskill Color & Chemical Co., The

Sulphur, Green

N. Y., Cook's Falls
Beaverskill Color & Chemical Co., The
N. Y., New York City
*Drug & Dyestuff Corp., 120 Broadway
Marden, Orth & Hastings Co., 61 Broadway

Sulphur, Khaki

N. J., Passaic
American Color Mfg. Co., Gregory Ave. and River Road. (Passaic)
N. Y., Cook's Falls
Beaverskill Color & Chemical Co., The
N. Y., New York City
*Dicks David Co., Inc., 302 Broadway
*Drug & Dyestuff Corp., 120 Broadway
*Klipstein & Co., A., 644 Greenwich St

Sulphur, Orange Brown

N. Y., Cook's Falls
Beaverskill Color & Chemical Co., The

Sulphur, Pink

N. Y., Cook's Falls
Beaverskill Color & Chemical Co., The

Sulphur, Rubbermakers

Mo., St. Louis
Commercial Acid Co., 1906 Boatman's Bank Bldg.
Lambert Chemical Co., Railway Exchange Bldg.

Sulphur, Yellow

N. Y., Cook's Falls
Beaverskill Color & Chemical Co., The
N. Y., New York City
*Drug & Dyestuff Corp., 120 Broadway
Marden, Orth & Hastings Co., 61 Broadway

Superphosphates

Cal., San Francisco
Union Superphosphate Co., 310 Sansome St.
N. Y., New York City
Munro & Co., Robt A., 31 Liberty St.

Superphosphates, Concentrated

Va., Richmond
Virginia-Carolina Chemical Co.

Syrups, Medicinal

N. Y., Norwich
Norwich Pharmacal Co.

Tablets, Charcoal

N. Y., Peekskill
Mackellar's Sons, R.

Tablets, Compressed

Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.
Mich., Kalamazoo
Upjohn Co.

Tablets, Hypodermic

Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.
Mich., Kalamazoo
Upjohn Co.
N. Y., Norwich
Norwich Pharmacal Co.

Tablets, Junket

N. Y., Little Falls
Hansen's Laboratory, Inc. Chr.

Talc

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Canada, Ontario, Modoc
Gillespie Co., George H.
Ill., Chicago
*Clark, Frank C., 316 W. Kinzie St.
N. J., Lincoln
Atlas Mineral Products Co., The
N. Y., Brooklyn
*Miner-Edgar Co., 52 Warren St.
N. Y., New York City
Baker & Bro., H. J., 100 William St.
*Binney & Smith Co., 81 Fulton St.
*Chrystal, Charles B., 11 Cliff St.
*Dunn & Kruse, 53 Park Row
*Fuerst Bros. & Co., 2 Stone St.
Robbins Mining Co., A. A., 99 John St.
St. Lawrence Talc Co., Inc., 7 E. 42nd St.
*Salomon & Bro., L. A., 216 Pearl St.
Talc Products Co., 11 Pine St.
*Whittaker Co., W. H., 250 Front St.
Union Talc Co., 123 Nassau St.
N. C., Asheville
Georgia Talc Co., Box 1025

Tallow, Mineralized

Pa., Philadelphia
Houghton & Co., E. F., 240 Somerset St.

Tantalum

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Tar, Coal

Ala., Birmingham
Gulf States Steel Co., Brown-Marx Bldg.
Tennessee Coal, Iron & R. R. Co.
Ala., Woodward
Woodward Iron Co.
Colo., Denver
Colorado Fuel & Iron Co., Boston Bldg.
Ill., Aurora
Coal Products Mfg. Co.
Ill., Chicago
American Tar Products Co.
By-Products Coke Corp.
Illinois Steel Co., 208 S. La Salle St.
Inland Steel Co.
Ill., Waukegan
North Shore Gas Co.
Ind., Indianapolis
Citizens Gas Co.
Ind., Linton
Linton Gas Co.
Ind., Muncie
Central Indiana Gas Co.
Ind., Terre Haute
Indiana Coke & Gas Co.
Mass., Boston
New England Fuel & Trans. Co., 111 Devonshire St.

Tar, Coal—*cont.*

Mass., New Bedford
New Bedford Gas & Edison Light Co.
Mich., Detroit
Detroit City Gas Co.
Mich., Wyandotte
Michigan Alkali Co.
Minn., Duluth
Minnesota Steel Co., Morgan Park Station
Minn., St. Paul
Minnesota By-Product Coke Co.
Minn., West Duluth
Zenith Furnace Co.
Mo., St. Louis
Laclede Gas Light Co., 1017 Olive St.
N. J., Jersey City
Seaboard By-Product Coke Co.
N. J., Newark
Camden Coke Co., Broad and Bank Sts.
N. Y., Buffalo
Buffalo Union Furnace Co.
N. Y., Lackawanna
Lackawanna Steel Co.
N. Y., New York City
Barrett Co., 17 Battery Place
Niagara Coke Corp., 6 Church St.
Consolidated Gas Co. of New York
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Canton
United Furnace Co.
Ohio, Cleveland
American Steel & Wire Co., Western Reserve Bldg.
Dover By-Product Coke Co., Leader-News Bldg.
River Furnace Co.
Toledo Furnace Co., Western Reserve Bldg.
United Furnace Co., Western Reserve Bldg.
Ohio, Hamilton
Hamilton-Otto Coke Co.
Ohio, Youngstown
Brier Hill Steel Co.
Republic Iron & Steel Co., Republic Bldg.
Youngstown Sheet & Tube Co.
Ohio, Steubenville
La Belle Iron Works
Pa., Chester
Philadelphia Suburban Gas & Electric Co.
Pa., McKeesport
Allegheny By-Product Coke Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Pa., Pittsburgh
Carnegie Steel Co.
National Tube Co., Frick Bldg.
Pa., South Bethlehem
Bethlehem Steel Co.
Tenn., Chattanooga
Chattanooga Gas & Coal Products Co., James Bldg.
Wash., Seattle
Seattle Lighting Co., 360 Stuart Bldg.
Wis., Milwaukee
Milwaukee Coke & Gas Co.
Northwestern Iron Co., First National Bank Bldg.

Tar, Dehydrated

N. Y., New York City
DuPont Chemical Works, 120 Broadway

Tar, Pine

Fla., Jacksonville
Florida Wood Products Co.
Ga., Savannah
Antwerp Naval Stores Co.
National Rosin Oil & Size Co.
La., New Orleans
American Turpentine & Tar Co.
N. Y., New York City
General Naval Stores Co., 90 West St.
Georgia Pine Turpentine Co. of New York, 158 Perry St.
Ohio, Cincinnati
*Winkler & Bro. Co., Isaac, 804 First National Bank Bldg.

Tar, P & A, Crude—no distillation

Neb., Omaha
Nebraska Blaugas Co., 28th and Boyd Sts.

Tar, Refined

N. J., Elizabeth
Bayway Chemical Co.
N. Y., New York City
DuPont Chemical Works, 120 Broadway

Tar, Refined Coal

Ohio, Cincinnati
Chatfield Mfg. Co., The

Tar, Road

N. Y., New York City
DuPont Chemical Works, 120 Broadway

Tar, Road & Refined

N. Y., New York City
DuPont Chemical Works, 120 Broadway

Tar Remover

N. Y. New York City
DuPont Chemical Works, 120 Broadway

Tarola
N. Y., New York City
Barrett Co., 17 Battery Place

Tartar Emetic (*see Antimony Tartrate*

Tartar, Cream of
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
England, Accrington
Phoenix Chemical Co., Ltd., Jackson St., Church
Md., Baltimore
*Walter Co., Edw. J., 803 American Bldg.
Mass., Boston
Stickney & Poor Spice Co., 184 State St.
N. Y., New York City
*Fuerst Bros. & Co., 2 Stone St.
*Harshaw, Fuller & Goodwin Co., 100 William St.
Merck & Co., 45 Park Place
Pfizer & Co., Charles, 81 Maiden Lane
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Spain, Barcelona
Sociedad Anonima Monegal, Apartado Correos, No. 144

Terebene
N. Y., New York City
McKesson & Robbins, Inc., 91 Fulton St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.,

Tellurium
N. J., Perth Amboy
Raritan Copper Works
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Terpinol
N. Y., New York City
Chemical Co. of America, 28 Platt St.

Terpinhydrate
N. Y., New York City
Chemical Co. of America, 28 Platt St.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.

Terra Alba
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.
*Dunn & Kruse, 53 Park Row
*Salomon & Bro., L. A., 216 Pearl St.

Terra Cotta F
N. Y., Cook's Falls
Beaverskill Color & Chemical Co., The

Tetrachloride, Acetylene
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Tetrachloride, Carbon
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Tetra Methyl Diamino Diphenyl Methane
N. Y., New York City
*Geisenheimer & Co., 134 Cedar St.

Tetramethyl Diphenylmethan
N. Y., New York City
Chemical Co. of America, 28 Platt St.

Tetranitromethylaniline
N. Y., New York City
DuPont Chemical Works, 120 Broadway

Tetrol
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Textase
N. Y., New York City
Malt-Diastase Co., 79 Wall St.

Thermite
Ohio, Marietta
Northwestern Chemical Co., The

"The Neo Earth" (*see Earth, The Neo*)

Thiocarbaniline
N. Y., New York City
National Aniline & Chemical Co., Inc., 244 Madison Ave.
N. Y., Syracuse
Semet-Solvay Co.

Thiocarbtoluide
N. Y., New York City
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Thiocarbxylide
N. Y., New York City
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Thorium

Ill., Chicago
Lindsay Light Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Thorium Nitrate

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.
Ill., North Chicago
Pfansteihl Co., Inc.

Thymol

N. Y., New York City
National Aniline & Chemical Co., Inc., 244 Madison Ave.

Thyroids

Ill., Chicago
Armour & Co., Union Stock Yards
Cudahy Packing Co., 111 Monroe St.
Mich., Detroit
Digestive Ferments Co.

Tin, Acetate

England, Manchester
Robinson & Co., H. F., Newton Heath
N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Tin, Crystal (*see Stannous Chloride*)

Tin Oxide (*see Stannic Oxide*)

Tin, Pig

Cal., San Francisco
Selby Smelting & Lead Co., Merchant Exchange Bldg.
Ill., Chicago
Great Western Smelting & Refining Co., 41st and Wallace Aves.
Ind., East Chicago
Raymond Lead Co., 940 W. Huron St.
N. J., Sewaren
Vulcan Detinning Co.
N. Y., Brooklyn
Atlantic Smelting & Refining Co., 36–42 Delevan St.
N. Y., New York City
Goldschmidt Detinning Co., 120 Broadway
Nassau Smelting & Refining Co., 607 W. 29th St.
National Lead Co., 111 Broadway
Pa., Philadelphia
Ajax Metal Co., 48 Richmond St.
Lewis & Bros. Co., John T., 705 Lafayette Bldg.
Taylor Co., N. & G., 409 Mariner & Merchants Bldg.

Titanium

England, Manchester
Spence & Sons, Ltd., Peter
N. Y., New York City
*Dorl, F. & Co., Park Row Bldg.
Goldschmidt Thermit Co.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Pa., Pittsburgh
Carnegie Steel Co.

Titanium Dioxide

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Titanium, Oxide

Va., Roseland
American Rutile Co.

Titanium Pigments

N. Y. Niagara Falls
Titanium Pigment Co., Inc.

Tolanite, Lamp

Pa., Philadelphia
Philadelphia Clay Co., 1201 Chestnut St.

Tolidin

N. Y., New York City
Chemical Co. of America, 28 Platt St.
Newport Chemical Works, 120 Broadway
Ohio, Cleveland
Sherwin-Williams Co.
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Tolidin Sulphate

N. Y., New York City
Chemical Co. of America, 28 Platt St.

Toluene (*see Toluol*)

Toluic Acid (Ortho)

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
Pa., Philadelphia
*Thomas, Arthur H., Co., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711–19 Forbes St.

Toluidine

Cal., San Francisco
California Aniline & Chemical Co., 33 Clementina St.
Ill., Quincy
Monroe Color & Chemical Co.

Toluidine—*cont.*

N. Y., New York City
Chemical Co. of America, 28 Platt St.
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
Middlesex Aniline Co., Inc., 149 Broadway
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Toluidine Hydrate, Para

N. Y., Kingston
Nitrated Chemicals Co.

Toluidine, Ortho

Ill., Chicago
Western Aniline Products Co., 1160 Old Colony Bldg.
N. Y., Kingston
Nitrated Chemicals Co.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Geisenheimer & Co., 134 Cedar St.
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
Ohio, Cleveland
Sherwin-Williams Co.
Wis., Milwaukee
Newport Chemical Works Inc., 1112 First National Bank Bldg.

Toluidine, Para

Ill., Chicago
Western Aniline Products Co., 1160 Old Colony Bldg.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
*Geisenheimer & Co , 134 Cedar St.
Merck & Co., 45 Park Place
Wis., Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Toluidine Reds

Cal., San Francisco
California Aniline & Chemical Co., 33 Clementina St.

Toluol

Ala., Birmingham
Gulf States Steel Co., Brown-Marx Bldg.
Tennessee Coal, Iron & R. R. Co.
Ala., Woodward
Woodward Iron Co.
Colo., Denver
Colorado Fuel & Iron Co., Boston Bldg.
Ill., Aurora
Coal Products Mfg. Co.
Ill., Chicago
By-Products Coke Corp.
Gas Co. of Indiana, Peoples Gas Bldg.
Illinois Steel Co., 208 S. La Salle St.
Inland Steel Co.
Ill., Waukegan
North Shore Gas Co.
Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.
Ind., Linton
Linton Gas Co.
Ind., Muncie
Central Indiana Gas Co.
Ind., Terre Haute
Indiana Coke & Gas Co.
Mass., Boston
New England Fuel & Trans. Co., 111 Devonshire St.
Mich., Wyandotte
Michigan Alkali Co.
Minn., Duluth
Minnesota Steel Co., Morgan Park Station
Minn., St. Paul
Minnesota By-Product Coke Co.
Minn., West Duluth
Zenith Furnace Co.
Mo., St. Louis
Laclede Gas Light Co., 1017 Olive St.
N. J., Elizabeth
Bayway Chemical Co.
N. J., Jersey City
Seaboard By-Product Coke Co.
N. J., Newark
Camden Coke Co., Broad and Bank Sts.
N. Y., Buffalo
Buffalo Union Furnace Co.
N. Y., Lackawanna
Lackawanna Steel Co.
N. Y., New York City
Barrett Co., 17 Battery Place
DuPont Chemical Works, 120 Broadway
Edgertyn Aniline Corp., 118 William St.
*Klipstein & Co., A., 644 Greenwich St.
*Lathrop & Co., H. R., 194 Water St.
Marden, Orth & Hastings Co., 61 Broadway
New Jersey Products, Inc., 165 Broadway
Niagara Coke Corp., 6 Church St.
*Williamson & Co., 120 Broadway
*Zobel Co., Inc., 38 Water St.
N. Y., Syracuse
Semet-Solvay Co.
Ohio, Cleveland
American Steel & Wire Co., Western Reserve Bldg.

Toluol—*cont.*

Ohio, Cleveland—cont.
Dover By-Product Coke Co., Leader-News Bldg.
River Furnace Co.
Toledo Furnace Co., Western Reserve Bldg.
United Furnace Co., Western Reserve Bldg.
Ohio, Hamilton
Hamilton-Otto Coke Co.
Ohio, Youngstown
Brier Hill Steel Co.
Republic Iron & Steel Co., Republic Bldg.
Youngstown Sheet & Tube Co.
Ohio, Steubenville
La Belle Iron Works
Pa., Carnegie
Aetna Chemical Co.
Pa., Chester
Philadelphia Suburban Gas & Electric Co.
Pa., McKeesport
Alleghany By-Product Coke Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Midvale Steel Co.,
United Gas Improvement Co., Broad and Arch Sts.
Pa., Pittsburgh
Carnegie Steel Co.
National Tube Co., Frick Bldg.
Pa., South Bethlehem
Bethlehem Steel Co.
R. I., Providence
Providence Gas Co.
Wash., Seattle
Seattle Lighting Co., 360 Stuart Bldg.
Wis., Milwaukee
Milwaukee Coke & Gas Co.
Northwestern Iron Co., First National Bank Bldg.

Toluol, Nitro

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich St.

Toluol, Pure

Ill., Chicago
Lewis Mfg. Co., F. J., 2500 S. Robey St.

Toluol, Amido Azo, Hydrochloride

N. Y., New York City
*Geisenheimer & Co., 134 Cedar St.

Toluylendiamine, Meta

N. Y., New York City
*Klipstein & Co., A., 644 Greenwich

Toners, Toluidine Red

N. Y., Glen Falls
Imperial Color Works, Inc.

Tribromphenol

Mich., Midland
Dow Chemical Co.

Trinitrobenzol (Sym.)

Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place.
Pa., Pittsburgh
*Scientific Materials Co., 711–19 Forbes St.

Tribromphenol Bismuth

Mich., Midland
Dow Chemical Co.

Trinitrophenol

Conn., Stamford
American Synthetic Color Co.
Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place
*Williamson & Co., 120 Broadway

Trinitrotoluol

Del., Wilmington
DuPont Chemical Works
Mo., St. Louis
*Heil, Henry, Chemical Co., 210–214 S. 4th St.
N. Y., New York City
Aetna Explosive Co., Inc., 120 Broadway
*Klipstein & Co., A., 644 Greenwich St.
Merck & Co., 45 Park Place
N. Y., Syracuse
Semet-Solvay Co.
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Tripoli

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
N. Y., New York City
*Chrystal, Charles B., 11 Cliff St.
*Salomon & Bro., L. A., 216 Pearl St.

Tungsten Metal

Colo., Boulder
Primos N. & M. Co.
Vasco Mining Co.

Tungsten Metal—*cont.*

Colo., Denver
Intermountain Tungsten Milling Co.
Rare Metals Ore Co.
Ill., North Chicago
Pfanstiehl Co., Inc.
N. Y., New York City
Goldschmidt-Thermit Co., 120 Broadway
*Hardy, Charles, 50 Church St.
*Mitsui & Co., Ltd.
Wah Chang Mining & Smelting Co., Ltd.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.
Pa., Pittsburgh
Vanadium-Alloys Steel Co.
S. Dak., Hill City
Black Hills Tungsten Mining & Milling Co.

Tungsten Ore

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Lavino & Co., E. J., Bullitt Bldg.

Turpentine

Fla., Jacksonville
Florida Wood Products Co.
Ga., Brunswick
Yaryan Rosin & Turpentine Co.
Ga., Savannah
American Naval Stores Co.
Antwerp Naval Stores Co.
London Savannah Naval Stores Co.
National Rosin, Oil & Size Co.
Standard Naval Stores Co.
N. Y., New York City
Atlantic Turpentine Co., 175 Front St.
Casey & Co., J. A., 144 Maiden Lane
*Columbia Naval Stores Co., 17 Battery Place
*General Naval Stores Co., 90 West St.
Georgia Pine Turpentine Co. of New York, 158 Perry St.
Industrial Chemical Co., 200 Fifth Ave.
*Larendon & Co., M. W., 82 Wall St.
*Rosin & Turpentine Export Co., 26 Cortlandt St.
Ohio, Cincinnati
*Winkler & Bro., Isaac
Wis., Milwaukee
Newport Turpentine & Rosin Co., 1112 First National Bank Bldg.

Turpentine, Gum Spirits of

La., Elizabeth
Producers Turpentine Co.
Ohio, Cincinnati
*Winkler & Bro. Co., Isaac, 804 First National Bank Bldg.

Turpentine, Imitation Venice

Ga., Savannah
Southern Oil & Chemical Co.

Turpentine, Venice

N. Y., New York City
Zobel Co., Inc., Ernest, 38 Water St.

Turpentine, Wood, Steam Distilled

La., Elizabeth
Producers Turpentine Co.

Turpentine Substitute

Cal., Los Angeles
General Petroleum Corp.
N. Y., Brooklyn
*Miner-Edgar Co., 52 Warren St.

Ultramarine (*see Blue Ultramarine*)

N. Y., New York City
Heller & Merz Co., 505 Hudson St.
Kalle Color & Chemical Co., 530 Canal St.
*Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
Ultramarine Co., Potter Bldg.
Waldo, E. M. & F., 11 Broadway
Ohio, Cleveland
*Harshaw, Fuller & Goodwin Co.
W. Va., Huntington
Standard Ultramarine Co.

Umber, Burnt and Raw Lump

Pa., Philadelphia
*Meyer & Sons, J., 480 Bourse Bldg.

Uranium Nitrate

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Uranium Ore

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Powers-Weigthman-Rosengarten Co.

Uranium Oxide

Colo., Denver
Chemical Products Co., 612 Majestic Bldg.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Uranium Oxide, Hydrate

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Uranium Salts

Pa., Pittsburgh
Standard Alloys Co., Forbes and Meyren Ave.

Urea

N. Y., New York City
American Cyanamide Co., 511 Fifth Ave.

Vaccine

D. C., Washington
National Vaccine & Anti-Toxin Institute, 1513 W St. N. W.
Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.

Vaccines, Bacterial

Mich., Kalamazoo
Upjohn Co.

Vanadates

Cal., Los Angeles
Calm, C. E., California Club

Vanadium (*see also Ferro-Vanadium, Alumino-Vanadium, Cupro-Vanadium; Cupro-Mangano-Vanadium*)

N. Y., New York City
Goldschmidt-Thermit Co., 120 Broadway
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.
Pa., Pittsburgh
American Vanadium Co.
Vanadium Metals Co.

Vanadium Salts

Pa,. Pittsburgh
Standard Alloys Co., Forbes and Meyren Aves.

Vanilla Beans

Va., Richmond
Sauer Co., C. F.

Vanillin

Ill., Chicago
Sethness Co.
Mo., St. Louis
Monsanto Chemical Works, 1800 S. 2d St.
N. J., Newark
Verona Chemical Works
N. Y., New York City
Dodge & Olcott Co., 87 Fulton St.
Fritzsche Bros., 82 Beekman St.
Hoffman-La Roche Chemical Works, 440 Washington St.
Lueders & Co., George, 218 Pearl St.
Magnus, Maybee & Reynard, 257 Pearl St.
Merck & Co., 45 Park Pl.
Pfaltz & Bauer, Inc., 300 Pearl St.
Stilwell & Co., A. A., 28 Cliff St.

Varnishes (*see also Shellac*)

Ill., Chicago
Sears, Roebuck & Co.
N. J., Newark
Murphy Varnish Co., Chestnut and McWhorter Sts.
N. Y. Buffalo
Pratt & Lambert, Inc., 75-97 Tonawanda St.
N. Y., New York City
Calman, Emil & Co., 100 William St.
General Bakelite Co.
Sinclair & Valentine Co., 611 W. 129th St.
England, West Bromwich
Lewington Whitehouse, Olympic Wks., Carters Green

Varnishes, Acid Proof

Ill., Chicago
Redmanol Chemical Products Co., 626 W. 22d St.

Varnishes, Bakelite

N. Y., New York City
General Bakelite Co.

Varnish Driers

Ill., Chicago
Stresen-Reuter & Hancock, Inc.

Varnish Gums (*see Gums, Varnish*)

Varnish, Laboratory

N. Y., Long Island City
Horn Holland Co., Horn Bldg.

Varnish Removers

N. Y., New York City
Berry Brothers, 262 Pearl St.

Varnish Stains (*see Stains, Varnish*)

Varnish, Tin Ware

N. Y., Long Island City
Horn Holland Co., Horn Bldg.

Verdigris

N. Y., New York City
Innis, Spelden & Co., 46 Cliff St.
Van Brunt & Co., Inc., J. A., 114 John St.

Violet, Methyl

N. Y., New York City
Dicks, David & Broadfoot Inc., 302 Broadway
Meth-O-Lene Co., Inc., 81 Fulton St.

Vitric

N. Y., New York City
Nitrate Agencies Co., 104 Pearl St.

Water, Distilled

N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
N. Y., Syracuse
Porter & Clancy, 200 James St.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Road

Water Purifier

Ohio, Cincinnati
Globe Chemical Co., 1135 Regent Ave.
N. Y., New York City
Reisett Automatic Water Purifying Co., 23 E. 26th St.

Water Softener

Ohio, Cincinnati
Globe Chemical Co., 1135 Regent Ave.
N. Y., New York City
Permutit Co., The, 440 4th Ave.
Reisett Automatic Water Purifying Co., 23 E. 26th St.

Waterproofing Materials

Md., Baltimore
Interocean Oil Co.
N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.
United States Asphalt Refining Co.

Waterproofing Preparations

N. Y., New York City
Brandes Chemical Co., 8th Ave.

Waterproofing Solutions

N. J., Passaic
Wolf, Jacques & Co.

Waxes, All Kinds

Ill., Chicago
Clark, Frank C., 316 W. Kinzie St.
Laboratory Materials Co., 7404 Calumet Ave.
N. J., Jersey City
Seydel Mfg. Co., Forrest and Holliday Sts.
N. Y., New York City
Arabol Mfg. Co., 100 William St.
Edgertyn Aniline Corp., 118 William St.
Fuerst Bros. & Co., 2 Stone St.
Innis, Speiden & Co., 46 Cliff St.
National Gum & Mica Co., 59th St. and 11th Ave.
Salomon & Bro., L. A., 216 Pearl St.
Standard Oil Co., 61 Broadway
Strohmeyer & Arpe Co., 139 Franklin St.
Texas Co., 17 Battery Place
Williamson & Co., 120 Broadway
Zobel Co., Inc., Ernst, 38 Water St.

Wax, Bees

Ill., Chicago
Rhodes & Co., James H., 157 Austin Ave.
Mich., Charlotte
Charlotte Drug Co.
N. Y., New York City
Fuerst Bros. & Co., 2 Stone St.
Strohmeyer & Arpe Co., 139 Franklin St.
Zobel Co., Inc., 38 Water St.

Wax Compounds

N. Y., New York City
Lamson & Bro., John L., 80 Maiden Lane

Wax, Crude

N. Y., New York City
Lamson & Bro., John L., 80 Maiden Lane

Wax, Japan

Mich., Charlotte
Charlotte Drug Co.
N. Y., New York City
National Aniline & Chemical Co., Inc. 244 Madison Ave.
Salomon & Bro., L. A., 216 Pearl St.

Wax, Japan Vegetable

N. Y., New York City
Zobel Co., Inc., Ernst, 38 Water St.

Wax, Refined Paraffine (*see also Paraffine Wax*)

Ill., Chicago
National Petroleum Products Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 Wil iam St.
Fuerst Bros. & Co., 2 Stone St.
Lamson & Bro., John L., 80 Maiden Lane
Marden, Orth & Hastings Co., 61 Broadway
Standard Oil Co., 26 Broadway
Texas Co., 17 Battery Place
Pa., Philadelphia
Atlantic Refining Co.
Pa., Pittsburgh
Atlantic Refining Co.
Gulf Refining Co.

Wax, Shellac

N. Y., New York City
Zobel Co., Inc., Ernst, 38 Water St.

Wax, Soluble
Mass., Atlantic
Bosson & Lane

Wax, Yellow Scale (*see Wax, Refined Paraffine*)

White, Flake
N. Y., New York
Harrison Works, 80 Maiden Lane

White Lead (*see Lead Carbonate, Basic*)

White, Vitro
Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Whiting
England, Liverpool
Brazendals & Co., 37 Leeds St.
Ill., Chicago
Central Commercial Co.
N. Y., New York City
Chrystal, C. B., 11 Cliff St.
Dunn & Kruse, 53 Park Row
Hammill & Gillespie, 240 Front St.
Industrial Chemical Co., 200 5th Ave.
Taintor Mfg. Co., H. F., 2 Rector St.

Wood Creosotes (*see Creosote*)

Wood Extracts (*see Specific Headings*)

Xeroform
N. Y., New York
Chromos Chemical Co., Inc., Aeolian Hall

Xylene (Ortho) (*see also Xylol*)
Mo., St. Louis
Heil Chemical Co., 210-214 S. 4th St.
N. Y., New York City
Merck & Co., 45 Park Place

Xylenols
N. J., Elizabeth
Bayway Chemical Co.

Xylidine
N. J., Newark
Central Dyestuff & Chemical Co., Plum Pt. Lane
N. J., Bound Brook
Calco Chemical Co.
N. Y., New York City
Chemical Co. of America, 28 Platt St.
Geisenheimer & Co., 134 Cedar St.
Klipstein & Co., A., 644 Greenwich St.
Marden, Orth & Hastings Co., 61 Broadway
National Aniline & Chemical Co., Inc., 244 Madison Ave.
Ohio, Cleveland
Sherwin-Williams Co.

Xylol
Ill., Chicago
Gas Oil Co. of Indiana, Peoples Gas Bldg.
Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.
N. J., Elizabeth
Bayway Chemical Co.
N. Y., New York City
Aetna Explosive Co., Inc., 120 Broadway
Barrett Co., 17 Battery Place
Du Pont Chemical Works, 120 Broadway
Edgertyn Aniline Corp., 118 William St.
Klipstein & Co., A., 644 Greenwich St.
New Jersey Products, Inc., 165 Broadway
Pa., Pittsburgh
Midvale Steel Co.

Xylol, C.P.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.

Xylol, Commercial
Ill., Chicago
Lewis Mfg. Co., F. J., 2500 S. Robey St.

Xylol, Pure
Ill., Chicago
Lewis Mfg. Co., F. J., 2500 S. Robey St.

Yeast
D. C., Washington
Corby Co., The
N. Y., Peekskill
Fleischmann Mfg. Co.
Ohio, Cincinnati
Fleischmann Co.

Yellow, A Concentrated, Jenyl
Mass., Boston
Jennings & Co., Inc., 93 Broad St.

Yellows, Acid (Wool)
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Yellows, Alizarine
N. J., Passaic
Wolf, Jacques & Co.
N. Y., New York City
Drug & Dyestuff Corp., 120 Broadway

Yellows, Direct (Cotton)

N. J., Passaic
American Color Mfg. Co., Gregory Ave. & River Rd., (Passaic)
N. Y., Cook's Fall
Beaverkill Color & Chemical Co., The
N. Y., New York
Dicks, David Co., Inc., 302 Broadway
Tenn., Kingsport
Federal Dyestuff & Chemical Corp.

Yellow, Cotton, R

N. Y., Cook's Fall
Beaverkill Color & Chemical Co., The

Yellow, Direct Fast

Pa., Philadelphia
Pennsylvania Color Mfg. Co., 248 Chestnut St.

Yellow, Jenyl Chlorfast

Mass., Boston
Jennings & Co., Inc., 93 Broad St.

Yellow, Katheton Olives

Mass., Boston
Jennings & Co., Inc., 93 Broad St.

Yellow, Naphthol S.

Ohio, Sandusky
Hord Color Products Co., The

Yellow, Union

Pa., Reading
Althouse Chemical Co.

Zinc (Dust)

England, Manchester
Willcocks & Co., Ltd., H. S., 5 Beaver St.
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St
Mich., Detroit
Michigan Smelting & Refining Co.
Mo., St. Louis
American Zinc, Lead & Smelting Co.
N. Y., New York City
Edgertyn Aniline Corp., 118 William St.
Fuerst Bros. & Co., 2 Stone St.
General Chemical Co., 25 Broad St.
Innis, Speiden & Co., 46 Cliff St.
Katzenbach & Bullock Co., 100 William St.
New Jersey Zinc Co., 55 Wall St.
Roessler & Hasslacher Chemical Co., 100 William St.
U. S. Smelting Co., Inc., 120 Broadway
Van Brunt & Co., Inc., J. A., 114 John St.
American Smelting & Refining Co.
Beer, Sondheimer & Co., 61 Broadway
Klipstein & Co., A., 644 Greenwich St.
Wood, Inc., J. Early, 21 Platt St.
Ohio, Cleveland
Grasselli Chemical Co.
Harshaw, Fuller & Goodwin Co.

Zinc, Refined

Md., Colgate
Electrolytic Zinc Co.

Zinc (Sheet)

Cal., Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ill., La Salle
Metthiessen-Hegeler Zinc Co.
N. Y., New York City
New Jersey Zinc Co., 55 Wall St.

Zinc (Strip)

N. Y., New York City
New Jersey Zinc Co., 55 Wall St.

Zinc Arsenate

Cal., Watsonville
California Spray Chemical Co.

Zinc Borate

N. Y., New York City
Klipstein & Co., A., 644 Greenwich St.

Zinc Carbonate

N. J., Matawan
Munning Loeb Co.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., Brooklyn
Wiarda & Co., John C., 273 Green St.
England, Wolverhampton
Bailey & Sons, William
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co., 317-323 Electric Bldg.

Zinc Carbonate, Precipitated

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Zinc Chloride

England, Smithy Bridge, near Rochdale
Dearhead Chemical Co.
Mass., Boston
Avery Chemical Co., 88 Broad St.
Merrimac Chemical Co., 32 Broad St.
United Indigo & Chemical Co., 176 Federal St.

Zinc Chloride—*cont.*

Mo., St. Louis
Commercial Acid Co., 3943 Duncan Ave.
Lambert Chemical Co., Railway Exchange Bldg.
N. Y., Brooklyn
Robinson Bros., Montrose and Seneca Aves.
N. Y., New York City
American Zinc & Chemical Co.
Berlin Aniline Works, 213 Water St.
Butterworth-Judson Corp., 61 Broadway
Cooper & Co., Charles, 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
Fuerst Bros. & Co., 2 Stone St.
General Chemical Co., 25 Broad St.
Kalbfleisch Corp., 31 Union Sq. W.
Klipstein & Co., A., 644 Greenwich St.
Lamson & Bro., John L., 80 Maiden Lane
New Jersey Zinc Co., 55 Wall St.
Roessler & Hasslacher Chemical Co., 100 William St.
Tennant Sons & Co., C., 100 William St.
Ohio, Cleveland
Grasselli Chemical Co., Arcade Bldg.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
R. I., Providence
Arnold, Hoffman & Co., Inc., 55 Canal St.
Wis , Milwaukee
Newport Chemical Works, Inc., 1112 First National Bank Bldg.

Zinc, Metallic, granulated technical

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Zinc Oleate

N. J., Harrison
National Oil Products Co., Essex and 1st Sts.

Zinc Oxide

England, Manchester
Willcocks & Co., Ltd., H. S., 5 Beaver St.
Ill., Chicago
Loraine Smelting & Refining Co., 25 N. Dearborn Ave.
Metal Products Co., 100 S. Jefferson St.
Mineral Point Zinc Co., 140 S. Dearborn Ave.
Sandoval Zinc Co., 410 N. Peoria Ave.
Ill., East St. Louis
American Zinc Co. of Illinois
Illinois Mineral Milling Co.
Mich., Charlotte
Charlotte Drug Co.
N. Y., New York City
American Metal Co., Ltd., 61 Broadway
Cooper & Co., Charles, 194 Worth St.
Edgertyn Aniline Corp., 118 William St.
Doggett, Stanley, 99 John St.
Gabriel & Schall, 205 Pearl St.
Katzenbach & Bullock Co., 100 William St
Klipstein & Co., A., 644 Greenwich St
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Place
National Aniline & Chemical Co., Inc., 244 Madison Ave.
New Jersey Zinc Co., 55 Wall St.
Schieffelin & Co., 170 William St.
Waldo, E. M. & F., 11 Broadway
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co., 317 Electric Bldg.
Pa., Philadelphia
French & Co., Samuel H., 4th and Callowhill Sts.
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
Powers-Weightman-Rosengarten Co., 9th & Parrish Sts.
Smith, Kline & French Co., 431 Arch St.
Pa., Pittsburgh
Nevin Co., T. H., Island and Preble Aves.
Pa., Williamsport
National Paint Works

Zinc Palmitate

N. J., Harrison
National Oil Products Co., Essex and 1st Sts.

Zinc Resinate

N. J., Harrison
National Oil Products Co., Essex and 1st Sts.
N. Y., New York City
Klipstein & Co., A., 644 Greenwich St.

Zinc Resinate, Precipitated and Fused

Pa., Philadelphia
Meyer & Sons, J., 480 Bourse Bldg.

Zinc Salts *(see Specific Headings)*

Zinc Stearate

Mich., Charlotte
Charlotte Drug Co.
N. J., Harrison
National Oil Products Co., Essex and 1st Sts.
N. Y., New York City
Merck & Co., 45 Park Place
McKesson & Robbins, Inc., 91 Fulton St.
National Aniline & Chemical Co., 244 Madison Ave.
Pfaltz & Bauer, Inc., 300 Pearl St.
Powers-Weightman-Rosengarten Co.
Van Dyk, L. A., 90 West Broadway

Zinc Sulphate

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
Midland Chemical Co., 80 E. Jackson Blvd.
Mo., Kansas City
National Zinc Co.
Mo., St. Louis
Mallinckrodt Chemical Co., 3600 N. 2d St.
N. J., Matawan
Munning Loeb Co
N. Y., New York City
Beer, Sondheimer & Co., 61 Broadway
Cooper & Co., Charles, 194 Worth St.
Klipstein & Co , A., 644 Greenwich St.
Pfatz & Bauer, Inc , 300 Pearl St.
Roessler & Hasslacher Chemical Co., 100 William St.
Ohio, Cleveland
Grasselli Chemical Co.
Pa., Philadelphia
Powers-Weightman-Rosengarten Co.
Pa., Pittsburgh
Mortland Chemical Co.
Tenn., Copperhill
Tennessee Copper Co.
Utah, Salt Lake City
American Smelting & Refining Co.

Zinc Sulphocarbonate

Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.

Zirconium

Pa., Philadelphia
Foote Mineral Co., 107 N. 19th St.

Zirconium Oxide

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.
Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Zirconium Silicate

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Zirkite, Refractories

Pa., Philadelphia
Foote Mineral Co., 120 N. 19th St.

Zulite

N. J., Elizabeth
Bayway Chemical Co.

II. MANUFACTURERS AND DEALERS OF CHEMICALS AND ALLIED PRODUCTS

Ala., Birmingham
Ajax Metal Co.
Birmingham Fertilizer Co., The
Gulf States Steel Co., Brown-Marx Bldg.
Jefferson Fertilizer Co.
Tennessee Coal, Iron & R. R. Co.
Ala., Dothan
Home Guano Co.
Ala., Florence
U. S. Government Nitrogen Plant.
Ala., Gadsden
Gadsden Fertilizer Co.
Ala., Leeds
Canada Mineral Co.
Ala., Mobile
Taylor, Loewenstein & Co.
Ala., Montgomery
Alabama Chemical Co.
Bear Lewis Drug Co.
Ala., Roanoke
Roanoke Guano Co.
Ala., Talladega
Planters Chemical & Oil Co.
Ala., Troy
Standard Chemical & Oil Co.
Ala., Woodward
Woodward Iron Co.
Ark., Fort Smith
Industrial Laboratories, Inc.
Ark., Little Rock
Arkansas Fertilizer Co.
Arkansas Soapstone & Refractories Co.
Cal., Agnew
Western Industries Co.
Cal., Berkeley
Catalytic Chemical Co., 3d and Bancroft Sts.
Pacific Guano & Fertilizer Co.
University Apparatus Co.
Cal., Chula Vista
Hercules Powder Co.
Cal., Corona
Exchange By-Product Co.
Cal., Highland
Thompson & Son, R. S.
Cal., Long Beach
International Potash Products Co.
Western Chemical Mfg. Co.
Cal., Los Angeles
Armour Fertilizer Works, 119 Central Ave.
*Braun Corporation, The
General Petroleum Corporation
Hauser Packing Co., E. 9th and Mateo St.
Hercules Oil Refining Co., 608 S. Main St.
Hill Chemical Co., C. W., 326 S. San Pedro St.
National Kelp Products Co.
Oceanic Engineer Co.
Pacific Mineral Products Co.
Riverside Portland Cement Co., Title Insurance Bldg.
Sirch Electrical & Testing Laboratories.
Southern Refining Co., 129 W. 2d St.
Sterling Borax Co., 215 W. 6th St.
Union Oil Co. of Cal., 215 W. 7th St.
Cal., Oakland
Butters, Charles
Pacific Coast Borax Co.
Cal., Owens Lake
California Alkali Co.
Cal., Pasadena
American Products Co.
Cal., Redlands
Citrus Products Co.
Kingsbury, H. P. D.
Cal., Riverside
Riverside Portland Cement Co.
Cal., San Diego
Lower California Chemical Co.
Cal., San Francisco
Amalgamated Oil Co., Sharon Bldg.
American Cream Tartar Co., 624 California St.
Atkins Kroll & Co., 311 California Ave.
Barbour Chemical Works, 707 West Coast Life Bldg.
Bass-Hunter Paint Co., 816 Mission St.
Bayle La Coste & Co., 444 Pine St.
Beckman & Linden Engineering Corp, 415 Balboa Bldg.
Braun-Knecht-Heimann Co,. 584 Mission St.
Bloom & Sons, Samuel, Army and Potrero Aves.
California Aniline & Chemical Co., 33 Clementina St.
California Glue Co., Fairfax Ave. and Rankin St.
*Central Commercial Co., 560 Sacramento St.
Classen Chemical Co.
Coffin, Redington & Co., 625 3d Ave.
Conservative Rubber Production Co., Monadnock Bldg.

Dill-Cossett, Inc., 235 Pine St.
El Dorado Oil Works, 149 California Ave.
Great Western Electrochemical Co., Holbrooke Bldg.
Haas Brothers
Hawaiian Fertilizer Co., 244 California St.
Horst Co., E. Clements, 150 Pine St.
Horstman Co., John, 685 Bryant St.
Moore & Co., Geo A., 212 California Ave.
Mountain Copper Co., 332 Pine St.
National Borax Co., 681 Market St.
Nevada Sulphur Co., Merchant Exchange Bldg.
Noble Electric Steel Co., Hewes Bldg.
Pacific Guano & Fertilizer Co., 343 Sansome St.
Pacific Refining & Roofing Co., 16th and Texas Ave.
Paraffine Paint Co., 34 First St.
San Francisco Chemical Co., 332 Pine St.
San Francisco Sulphur Co., 624 California Ave.
Selby Smelting & Lead Co., Merchants' Exchange Bldg.
Stauffer Chemical Co., 1624 California Ave.
Union Sugar Co., 310 Sansome St.
Union Superphosphate Co., 343 Sansome St.
United States Borax Co., 681 Market St.
Western Grain & Sugar Products Co., 110 Sutter St.
Wheeler, Reynolds & Stauffer, 624 California Ave.

Cal., Santa Cruz
Santa Cruz Portland Cement Co.

Cal., San Jose
Consumers Refining Co., Harris Trust Bldg.
Petroleum Products Co.

Cal., Summerland
U. S. Dept. of Agri. Exp. Plant.

Cal., Trona
American Trona Corporation.

Cal., Vernon
Internal Dye Products Co.

Cal., Watsonville
California Spray Chemical Co.,

Cal., West Berkeley
California Aniline & Chemical Co.
Catalytic Chemical Co., 3rd and Bancroft St.

Can., B. C., Queen Charloette Islands
International Chemical Co.

Can., Modoc, Ont.
Gillespie Co., Geo. H.

Can., Montreal, P. Q.
Canadian Electro Products Co., Ltd., 611 Power Bldg.

Can., Orillia, Ont.
International Molybdenum Co., Ltd.

Can., St. Catharines, Ont.
Coniagas Reduction Co., Ltd.

Can., Shawninigan Falls, Quebec
Canadian Electro Products Co., Ltd., Office, Power Bldg., Montreal

Can., Ontario, Gravenhurst
Canadian Potash Corporation

Can., Toronto, Ont.
Canadian Ammonia Co., Ltd., Heward Ave.

Can., Quebec
L'Air Liquid Société

Colo., Boulder
Black Metal Reduction Co.
Boulder Tungsten Produce Co.
Luckie 2 Mfg. Co.
Primos N. & M. Co.
Tungsten Metals Co.
Vasco Mining Co.

Colo., Denver
The Chemical Products Co., 612–616 Majestic Bldg.
Colorado Fuel & Iron Co., Boston Bldg.
Denver Fire Clay Co., 1742 Champ St.
Ragged Top Mfg. Co.
Rare Metals Ore Co.
United Oil Co., First National Bank Bldg.
Western Chemical Mfg. Co., S. Osage and W. Bayaud Sts.

Colo., Montrose
*Willmarth, O. Barlow, Keller Bldg.

Colo., Pueblo
Norcross Chemical Co.

Colo., Sugar Loaf
Mojave-Boulder Tunsten Mfg. Co.

Conn., Bridgeport
Canfield Rubber Co., 129 Garden St.
Siemon Hard Rubber Corp.

Conn., Danielson
Connecticut Color Co.

Conn., Elmwood
Eastern Chemical Co.

Conn., Hartford
Eastern Chemical Works
*Ney Co., J. M.
Olds & Whipple
Sisson Drug Co.

Conn., Middletown
Rogers & Hubbard Co., The

Conn., Mystic
Wilcox Fertilizer Co.

Conn., Naugatuck
Naugatuck Chemical Co., The

Conn., New Haven
Hubinger Bros. Co., J. C.
Kolynos Co., 130 Bristol St.
Sanderson Fertilizer & Chemical Co.

Conn., Seymour
Seymour Mfg. Co.

Conn., Stamford
American Synthetic Color Co.
Celluloid Zapon Co. (Factory)
Stamford Rubber Supply Co.
Conn., Waterbury
Apothecaries Hall Co.
Del., Lewes
Lewes Fisheries Co.
Del., Milford
Caulk Co., The L. D.
Del., Newport
Krebs Pigment & Chemical Co.
Del., Wilmington
Atlas Powder Co.
du Pont De Nemours Co., E. I.
Hercules Powder Co., 10th and Market Sts.
International Smokeless Powder & Chemical Co.
Mineral Products Mfg. Co.
D. C., Washington, Congress Heights
Capital Chemical Co., 621 Alabama Ave.
D. C., Washington, Landon
Corby Co., The
D. C., Washington
Lamb & Tilden, 725 13th St. N. W.
National Vaccine & Anti-Toxin Institute, 1513 W. St., N. W.
Eng., Accrington
Phoenix Chemical Co., Ltd., The,
Eng., Birmingham
Belchers (Standley) & Mason, Ltd., Church St.
Fram Mfg. Co., Ltd., Ellis St.
Eng., Darlington
Parkin, Ness & Co., Quebec St.
Eng., Essex, Loughton
Madderton & Co., Ltd.
Eng., Lancashire, Chorley
Threlfall & Sons, Thos.
Eng., Lancashire, Edenfield
Sharp, Ltd., J. B. & W. R.
Eng., Liverpool
Brazendals & Co., 37 Leeds St.
Clayton & Jowett, Ltd., 5 Concert St.
Haddock Parker & Co., 14 Chapel St.
Eng., London
American Commerce Co., Ltd., The, 19 St. Bride St.
Berk & Co., Ltd., F. W., 1 Fenchurch Ave. (E. C. 3.)
Franklin Chemical Co., Ltd.
Eng., Manchester
Barclay, Hobson & Co., Ltd., Harpurhey
*Hall, George D. A., 33 Mosley St.
Robinson & Co., H. F., Newton Heath
Spence & Sons, Ltd., Peter
Victors, Ltd., Victoria Bldg.
*Willcocks & Co., Ltd., H. S., 5 Beaver St., Whitworth St.
Eng., Oldham
Granville Wood & Co., Ashcroft St.
Eng., Sheffield
Newsholina, Ltd., G. T. W., 27 High St.
Eng., Smithy Bridge, near Rochdale
Dearhead Chemical Co.
Eng., Stockport
Cornbrook Chemical Co., Ltd.
Eng., Sussex
Standard Tablet Co., Ltd., The
Eng., West Bromwich
Lewinton Whitehouse, Olympic Works, Carters Green
Eng., Widnes
Alumina Co., Ltd., The
Eng., Wolverhampton
Bailey & Son, William
Reade Bros. & Co., Ltd.
Fla., Gainesville
Florida Fertilizer Mfg. Co.
Fla., Gull Point
Pensacola Tar & Turpentine Co.
Fla., Jacksonville
Armour Fertilizer Works
Florida Wood Products Co.
Jacksonville Chemical Mfg. Co.
Painter Fertilizer Co., E. O.
Peninsular Naval Stores Co.
Wilson & Toomer Fertilizer Co.
Fla., Lakeland
Lakeland Phosphate Co.
Fla., Ocala
Camp Phosphate Co.
Fla., Pierce
Pierce Phosphate Co.
Fla., Rockwell
Dunnellon Phosphate Co.
Fla., Tampa
Gulf Fertilizer Co.
Ga., Atlanta
Adair, A. D., & McCarty Bros.
Armour Fertilizer Works
Chickamauga Fertilizer Co.
Empire Cotton Oil Co.
Marietta Fertilizer Co.
Morris Fertilizer Co.
Old Dominion Guano Co.
Phenix Supply Co.
Porter Fertilizer Co.
Ga., Augusta
Georgia Chemical Works
Neely & Wilcox
South Atlantic Fertilizer Co.
Southern States Phosphate & Fertilizer Co.
Ga., Athens
Empire State Chemical Co.
Georgia Phosphate Co.
Southern Refining Co.
Ga., Cartersville
Big Tom Barytes Co.
Cherokee Ochre Co.

Georgia Peruvian Ochre Co.
New Riverside Ochre Co.
Paga Mining Co.
South Leasing Co.
Ga., Macon
Columbia Guano Co.
Cotton States Seed & Fertilizer Co.
Ga., Montezuma
Montezuma Fertilizer Co.
Ga., Savannah
Alexander & Co., Inc., G. S.
American Naval Stores Co.
Antwerp Naval Stores Co.
Barker Chemical Co.
Comer & Co., E. T.
Crum & Co., W. R.
Hull & Co., James
Lang & Co., J. M.
London & Savannah Naval Stores Co.
Mutual Fertilizer Co.
National Rosin Oil & Size Co.
Producers Naval Stores Co.
Reliance Fertilizer Co.
Savannah Guano Co.
Southern Fertilizer & Chemical Co.
Standard Naval Stores Co.
Southern Oil & Chemical Co.
Willcox-Ives & Co.
Willcox-Ives Oil Co.
Ill., Aurora
Coal Products Mfg. Co.
Ill., Chicago
Abbott Laboratories, The, 4753 Ravenswood Ave.
*Acme Asbestos Covering & Supply Co., 401 N. Ada St.
Adams & Elting Co., 712 Washington Boulevard
Adams Co., Fred C., 234 S. La Salle Ave.
Allen Co., L. B., 4545 N. Lincoln Ave.
Alston-Lucas Paint Co., Wade and Currier Sts.
American Extract Co., 129 W. Kinzie St.
American Pumice Co., Harris Trust Bldg.
American Steel & Wire Co., 212 S. La Salle St.
Armour & Co., Union Stock Yards
Armour Fertilizer Works, Union Stock Yards
Armour Glue Works, 137 La Salle Ave.
Armour Soap Works, 3130 Benson St.
Barrett & Barrett, 55 Austin Ave.
Barrett & Co., M. L., 233 W. Lake Ave.
Beekler Co., Jno. G., 722 Curtis St.
Birkenstein & Sons, S., 409 W. Ontario St.
*Burdett Mfg. Co., St. Johns Court
Burke & James, Inc., 240 E. Ontaror St.
By-Products Coke Corporation
Carnotite Production Co.
*Central Asbestos & Magnesia Co., 214 W. Grand Ave.
Central Scientific Co., 460 E. Ohio St.
Chapman & Smith Co., Washington Boulevard and S. Carpenter St.
Chicago Copper & Chemical Co., 111 W. Jackson Pl.
Chicago Varnish Co., 2100 Elston Ave.
Chicage White Lead & Oil Co., 15th and Western Ave.
Chisos Mining Co., The, 565 W. Washington St.
*Clark, Frank Co., 316 W. Kinzie St.
Columbia Chemical Works, 220 W. Huron St.
Consumers Refining Co., 76 W. Monroe St.
Creamery Package Mfg. Co., 61 W. Kinzie Ave.
Cudahy Packing Co., 111 W. Monroe St.
Cutter Laboratory, The, 170 N. Dearborn Ave.
Daigger & Co., A., 52–56 W. Kinzie St.
Darling & Co., 4201 S. Ashland Ave.
*Davidson Commission Co., 140 W. Van Buren St.
Dearborn Chemical Co., McCormick Bldg.
DeVaux Anti-Toxin Co., F. H., 752 E. 51st St.
Diamond Match Co., 110 W. Kinzie St.
Fairbanks & Co., N. K., 7 S. Dearborn Ave.
*Freeman, John R., 348 N. Irving Ave.
Fuller & Fuller, 235 W. Randolph St.
*Furman, Jas. H., 326 W. Madison St.
Gas Oil Co. of Indiana, People's Gas Bldg.
Gazzolo Drug & Chemical Co., 119–123 S. Green St.
*German Kali Works, 1901 McCormick Bldg.
*Glaser & Crandell Co., 2000 S. Western Ave.
Glaser, Kohn & Co., 2000 S. Western Ave.
Goldsmith Bros., Smelting & Refining Co., Madison and Wabash Aves.
Great Western Smelting & Refining Co., 41st and Wallace Sts.
Heissler & Junge Co., 301 W. 39th St.
Heller & Co., B., 3925 Calumet Ave.
Heller Chemical Co., 900 Fulton St.
Hirsh, Hall & Co, 111 W. Washington St.
Hutchinson & Son, W. H., 196 Desplaines St.
Illinois Steel Co., 208 S. LaSalle St.
Independent Brewing Co., 821 Blackhawk St.

Inland Steel Co., First Nat. Bank Bldg.
Kelso & Co., 557 W. Quincy St.
*Laboratories Supply Co.
Lewis Mfg. Co., F. J., 2500 S. Robey St.
Lindsay Light Co., 161 E. Grand Ave.
Liquid Carbonic Co., 31st and Kenzie Ave.
Long Chemical Co., The Ed., 1276 Claybourne Ave.
Loraine Smelting & Refining Co., 25 N. Dearborn Ave.
Marvel Soap Paste Co., 2901 S. Canal St.
Merchants Chemical Co., 7 S. Dearborn St.
Metal Products Co., 100 S. Jefferson St.
Midland Chemical Co., 80 E. Jackson Blvd.
Monahan Antiseptic Co., 166–172 Curtis St.
Morris & Co., Union Stock Yards.
Morton Salt Co., 80 E. Jackson Blvd.
National Alum Co.
National Ox-Hydric Co.
National Steel & Copper Plate Co., 542 S. Dearborn St.
Obermayer Co., S.
Price Flavoring Extract Co., 29 E. Illinois St.
Puhl-Webb Co., 624 W. Randolph St.
Randall Graphite Sheet Lubricator Co., 816–818 W. Lake St.
Raven Mining Co., 1403 Dearborn Ave.
Raymond Lead Co., 940 W. Huron St.
Redmanol Chemical Co., 636 W. 22d St.
Rhodes & Co., Jas. H., 157 W. Austin Ave.
Russell Kincaid Co., 144 W. Austin Ave.
Sall Mountain Co., 230 S. LaSalle St.
Sandoval Zinc Co., 410 N. Peoria St.
Sanford Mfg. Co., Congress and Peoria Sts.
*Sardy Fertilizer Materials Co., J. B., 140 W. Van Buren St.
*Schaar & Co., 1025 S. State St.
*Sears, Roebuck & Co., Homan and Hanard Aves.
*Sethness Co., 718 N. Curtis St.
Sherwin Williams Co., Pullman Station
Stein, Hall & Co., Westminster Bldg.
Street & Co., R. R., 541 W. Washington St.
*Stresen-Reuter & Hancock, Inc., 1501 S. Peoria St.
Stuart & Co., Inc., D. A., 29 S. La Salle St.
Swift & Co., Union Stock Yards
Thomson & Taylor Spice Co., 563 W. 22d St.
Thorkliesyen-Mather Co., Harris Trust Bldg.
United States Gypsum Co., 205 W. Monroe St.
United States Silica Co., 419 Peoples Gas Bldg.
Van Schaak & Son, Peter, 114 W. Lake St.
Van Schaack Bros. Chemical Works, Avondale and Kimball Aves.
Victor Chemical Co., 1805 Fisher Bldg.
Welch Mfg. Co., 1516 Orleans St.
Western Aniline Products Co., 1160 Old Colony Bldg.
Wilson & Co., 41st and Ashland Ave.

Ill., Chicago Heights
Dicks David & Heller Co.

Ill., Danville
Hegeler Bros.

Ill., Depue
Mineral Paint & Zinc Co.

Ill., East St. Louis
Illinois Mineral Milling Co.

Ill., Hillsboro
Robert Lanyon Zinc & Acid Co.

Ill., La Salle
Carus Chemical Co.
Matheson & Hegelar Zinc Co.

Ill., Moline
Lewis Mfg. Co., F. J.

Ill., North Chicago
Pfanstiehl Co., Inc.

Ill., Peoria
Allaire, Woodward & Co.
Clarke Bros. & Co.
Colburn, Birks & Co.
Keystone Steel & Wire Co.
Woolner & Co.

Ill., Peru
Illinois Zinc Co.

Ill., Quincy
Monroe Color & Chemical Co.
Monroe Drug Co.

Ill., Sterling
Massey & Massey Co.

Ill., Tamms
Tamms Silica Co.

Ill., Waukegan
North Shore Gas Co.

Ind., Coxville
Acme Glass Sand Co.

Ind., Evansville
Evansville Packing Co.

Ind., Fort Wayne
Bash Fertilizer & Chemical Co.

Ind., Greencastle
Greencastle Zinc & Lead Mining Co.

Ind., Hammond
Western Aniline Products Co.

Ind., Indianapolis
Citizens Gas Co., Majestic Bldg.
Hoffman Co., Geo. Wm., 557 E. Washington St.

Eli Lilly & Co., 224 E. McCarthy St.
Pitman Moore Co.
Prest-O-Lite Co., Speedway.
Rauh & Sons, E., 427 S. Penn Ave.
Ind., Lawrenceville
Central Refining Co.
Ind., Lawrenceburg
Walsh & Co., James
Ind., Linton
Linton Gas Co.
Ind., Marion
Western Drop Forge Works.
Ind., Muncie
Central Indiana Gas Co.
Ind., Terre Haute
Commercial Distilling Co., The
Indiana Coke & Gas Co.
Iowa, Cedar Rapids
Douglas Co.
Iowa, Fort Dodge
Plymouth Gypsum Co.
National Zinc Co., Parkers Station.
Ky., Ashland
Ashland Iron & Mining Co.
Ky., Georgetown
Indian Refining Co.
Ky., Louisville
Federal Chemical Co.
Kentucky Refining Co.
Standard Oil Co. (of Kentucky)
Ky., Marion
Kentucky Fluor Spar Co.
La., Crowley
Crowley Oil & Mineral Co.
La., Elizabeth
Producers Turpentine Co.
La., New Orleans
American Turpentine & Tar Co.
Barrett Mfg. Co., Hibernia Bank Bldg.
Jefferson Distilling & Denaturing Co.
Louisiana Distilling Co.
New Orleans Acid & Fertilizer Co., Gretna Lane.
Planters Fertilizer & Chemical Co.
Seaboard Refining Co.
Standard Guano & Chemical Mfg. Co., Whitney Central Bldg.
Union Naval Stores Co., Whitney Bldg.
La., Onvil
Covington Naval Stores Co.
Me., Portland
Chisos Mining Co., The
Portland Refining Co.
Md., Baltimore
Baugh & Sons Co., 27 S. Calvert St.
Bloede Co., Victor G., Caton Ave.
Canton Corn Products Co., Clinton and 4th Ave.
Clendenin Bros., Central and Fawn Sts.
*Cottman & Co., J. H., Keyser Bldg.
Davidson Chemical Co., South and German Sts.
Hancock & Sons, John F., 4 S. Howard St.
Hubbard Fertilizer Co., 802 Keyser Bldg.
Interocean Oil Co. (East Brooklyn)
Island Petroleum Co., Keyser Bldg.
*Lewis Importing & Mfg. Co., 1122 W. Saratoga St.
Lord, Hy. W., 1628 Moreland Ave.
McCormick & Co., 722 E. Pratt St.
Miller Fertilizer Co., 7 S. Gay St.
Ober & Sons Co., G., Fidelity Bldg.
Patapsco Guano Co., Vickers Bldg.
Rasin-Monumental Co., National Marine Bank Bldg.
Robinson & Son Co., Wm. C., 32 South St.
Sharp & Dohme, Pratt & Howard Sts.
*Sonneborn Sons, L., 513 W. Lombard St.
Standard Wholesale Phosphate Co., Continental Bldg.
*Struven & Co., Chas. M., 114 S. Frederick St.
Thomsen Chemical Co., Race and Winder Sts.
Thomas Mfg. Co., 117 W. Camden St.
United States Fertilizer Co., Phoenix Bldg.
United States Industrial Chemical Co., Curtis Bay
Virginia Red Oil Products Corporation, 3rd Ave. and 8th St.
*Walter Co., Edw. J., 803 American Bldg.
*Webb & Son, A. L., 115–117 E. Lombard St.
*White & Co., Thos. H., Reed Bldg.
Md., Colgate
Electrolytic Zinc Co.
Md., Elkton
Scott Fertilizer Co.
Md., Hagerstown
Central Chemical Co.
Security Cement & Lime Co.
Md., Hancock
Pennsylvania Glass Sand Co.
Mass., Andover
Tyer Rubber Co.
Mass., Atlantic
Bosson & Lane
Mass., Auburndale
Burnham Soluble Iodine Co.
Mass., Billerica
Billerica Glue Co.
Mass., Boston
Alliance Chemical Co., 178 Federal St.
American Camphor Refining Co., 14 Fulton St.
American Glue Co., 121 Beverly St.
American Soda Fountain Co., 282 Congress St.
Ashley & Co., F. C., 683 Atlantic Ave.

Atlantic Dyestuff Co., 88 Ames Bldg.
Atteaux & Co., F. E., 176 Purchase St.
Avery Chemical Co., 88 Broad St.
Bird & Co., J. A. & W., 88 Pearl St.
Bowdlear Co., W. H., 73 Broad St.
Bowker Fertilizer Co.
Bradley Fertilizer Works, 92 State St.
Brock Rubber Co., A. S.
Burkhardt Brewing Co., Parker and Station St.
Cabot, Godfrey L., 204 Washington St.
Cabot, Samuel, Inc., 141 Milk St.
Carters Ink Co., 239 Front St.
Cochrane Chemical Co., 40 Central St.
Consolidated Rendering Co., 40 N. Market St.
Cordingley & Son, W. S., 229 A St.
*Cronkhite Co., Inc., 185 Deavonshire St.
Davidson Rubber Co., 241 A St.
Dennison Mfg. Co., 26 Franklin St.
Dodge & Olcott, 128 Milk St.
*Durfee, Winthrop C., 516 Atlantic Ave.
Eastern Drug Co., 21 Fulton St.
Eagle Oil & Supply Co., 44 India St.
*Gahm & Son, J., Anchor and C. S. B.
*King & Co., Inc., E. & F., 367 Atlantic Ave.
Leyland & Co., Thos., 60 India St.
Linder & Meyer, 89 State St.
Metcalf Co., Theo., 535 Boylston St.
Merrimac Chemical Co., 33 Broad St.
Montgomery & Co., W. L., 146 Summer St.
Mortimer & Co., 68 Beaver St.
Murray Co., 224 State St.
Neponset Color Co., Hyde Park.
New England Fuel & Trans. Co., 111 Devonshire St.
New England Gas & Coke Co., 24 West St.
New England Rendering Co., Abattoir Grounds Br.
Patch & Co., E. L., 99 North St.
*Rosentwist & Görner, 26 India Sq.
Salomon & Bro., L. A., 216 Pearl St.
Shaw & Co., John, 15 Elkins St.
Slade Co., D. & L., 189 State St.
Smith & Nichols, 121 Maiden Lane
*Stickney & Poor Spice Co., 184 State St.
Thayer & Co., E. M., 411 Atlantic Ave.
United Indigo & Chemical Co., 176 Federal St.
U. S. Smelting, Refining & Mining Co., 5 Congress St.
*Waite, Ranlet & Co., 80 Broad St.
Warren Bros. Co., 59 Temple Pl.
Lobel Co., Inc., Ernest, 48 Cornhill St.

Mass., Cambridge
The Exolon, 156 Sixth St.
Lever Bros.
Reardon & Sons Co., John
Mass., Leominster
Danfourth Chemical Co.
Mass., Melrose
Melrose Chemical Co., Essex St.
Mass., New Bedford
Davis Chemical Works, H. V.
*Nye, Wm. F.
Mass., Newton Lower Falls
Sullivan Co., R. T.
Mass., N. Brookfield
Quabang Rubber Co.
Mass., Peabody
Clark Co., B.
Mass., Roxbury
Baird & McGuire
Mass., South Boston
Hub Dyestuff & Chemical Co., 595 E. 7th St.
Northern Industrial Chemical Co., 11 Elkins St.
Mass., South Seekonk
Arnold & Marshall Chemical Co.
Mass., Springfield
Baker Extract Co.
Mass., West Stoughton
Stoughton Mills, Inc.
Mass., Worcester
Brewer & Co.
Marble & Co., J. Russell
White & Bagley Co.
Mich., Bay City
Northern American Chemical Co.
Mich., Cadillac
Cadillac Chemical Co.
Cummer-Diggins Co.
Mich., Charlotte
*Charlotte Drug Co.
Mich., Detroit
Acme White Lead & Color Works, St. Aubin Ave. and M. C. R. R.
American Silica Co., Dime Bank Bldg.
Berry Bros., Ltd., Leib and Weght Sts.
Boydell Bros. White Lead & Color Co., 18 Congress St.
Charcoal Iron Co. of America.
Detroit Chemical Works, 238 Junction Ave.
Detroit White Lead Works, 560 Milwaukee Ave.
Digestive Ferments Co., 16 Locust St.
Eaton & Son, Theo. H., 26 Woodward Ave.
Goebel Brewing Co., 35 Rivard St.
International Color & Chemical Co., 570 Franklin St.
Masury & Son, J. W., 50 Jay St.
Mexican Crude Rubber Co., Penobscot Bldg.
Michigan Alkali Co., 1622 Ford Bldg.

Michigan Ammonia Works, Meldrum St.
Michigan Carbon Works, Carbon and Forman Aves.
Michigan Stove Co., 1022 Jefferson Ave.
Nelson Baker & Co., 58 Brooklyn Ave.
Parke, Davis & Co.
Savigny Co., 4 Adams Ave., W.
Stearns & Co., Frederick
White Star Refining Co., 614 Avery Ave.

Mich., Grand Rapids
Carpenter-Udell Co.
Imperial Chemical Co.
Richards-Wilson Pipe Covering Co., 325 Scribner Ave.

Mich., Huron
Huron Milling Co.

Mich., Kalamazoo
Todd Co., A. M.
Upjohn Co.

Mich., Lansing
Lansing Chemical Co.

Mich., Midland
Dow Chemical Co.
Midland Chemical Co.

Mich., Muskegon
Michigan Tanning & Extract Co.
Muskegon Extract Co.

Mich., Saginaw
United States Graphite Co.

Mich., Wells
Mashek Chemical & Iron Co.

Mich., West Branch
Mashek Chemical & Iron Co.

Mich., Wyandotte
*Ford Co., J. B.
*Voss & Co., J. H.

Minn., Duluth
American Carbolite Co., 301 N. 55th Ave.
Minnesota Steel Co., Morgan Park Station

Minn., Minneapolis
Archer-Daniels Linseed Co., 2901 S. E. 6th St.
Columbia Chemical Co.
Midland Linseed Products Co., 1101 S. 3d St.
Noyes Bros. & Cutler, 376 Sibley St.
Van Tilburg Oil Co., The

Minn., St. Paul
Minnesota By-Product Coke Co.

Minn., South St. Paul
National Serum Co.

Minn., West Duluth
Carbic Mfg. Co.
Zenith Furnace Co.

Mo., Blackwell
Cole & Co., L. E.

Mo., Fletcher
Johnson Bros.

Mo., Independence
Independence Aniline & Refining Co.

Mo., Halifax
Carter & Co., H. C.

Mo., Henley
Reavis & Co., W. T.

Mo., Joplin
Picher Lead Co.

Mo., Kansas City
Hood, Abner, Chemical Co., 1409 W. 10th St.
Inter-Ocean Oil Co.
National Zinc Co., Main Office, 61 Broadway, New York City

Mo., Mineral Point
Point Milling & Mfg. Co.

Mo., Monroe
Monroe Color & Chemical Co.

Mo., Pacific
Pacific Glass Sand Co.

Mo. Potosi
Carr, A. H.
Casey & McGregor
Long, James
South East Wisconsin Lead Co.

Mo., St. Louis
Alunite Co. of America
American Asphalt Association
Antikamnia Chemical Co., 1624 Pine St.
Applegren Mfg. Co., F., 7th and Howard Sts.
Barnes Mfg. Co., 302 Valentine St.
Bell Mfg. Co., 104 Gratiot Ave
Commercial Acid Co., Boatmen's Bank Bldg.
Continental Chemical Co., 418 N. 3rd St.
Cranfield Mfg. Co., J. H., 1623 N. 7th St.
Donzelot & Son, Eugene, 16 S. Main St.
Finch Mineral & Milling Co., J. C., 101 Barton St.
*Heil Chemical Co., Henry, 210-214 S. 4th St.
H. M. T. Chemical Co., Merchants Laclede Bldg.
Hoyt Metal Co , Boatsmen's Bank Bldg.
Laclede Gas Light Co., 1017 Olive St.
Mallinckrodt Chemical Works, 3600 N. 2d St.
Lambert Chemical Co., Railway Exchange Bldg.
Merrell Drug Co., U. S., 4th and Markets Sts.
Midvale Chemical Co., 610 Locust St.
Midvale Mining & Mfg. Co., 705 Olive St.
Missouri Fire Brick Co.
Monsanto Chemical Works, 1800 S. 2d St.

Mound City Paint & Color Co., 1531 N. 11th St.
National Ammonia Co., The, 3600 N. Broadway.
Nulsen, Klein & Krausse Mfg. Co., Foot Sidney St.
Pierce Oil Corporation, Olive and Broadway
Potosi Lead Barytes & Mercantile Co., 721 Locust St.
Provident Chemical Works, 8011 Idaho Ave.
*Salzgeber, George H., 109 St. George St.
Washington Land & Mixing Co., 307 Washington St.
Whitelaw Bros. Chemical Co.

Mo., Tiff
U. S. Barytes Co.

Mont., Helena
Perry & Co., C. T.

Neb., Alliance
Potash Products Co.

Neb., Antioch
American Potash Co.
Nebraska Potash Works Co.

Neb., Franklin
Hevner, C. W.

Neb., Hoffman
Potash Product Corporation.

Neb., Lakeside
Hord Alkali Product Co.

Neb., Omaha
American Potash Co.
Cudahy Packing Co.
Standard Chemical Mfg. Co.
Nebraska Blaugas Co., 28th and Boyd Sts.
Nebraska Sheridan Co.
Western Potash Co.
N. H., Berlin Brown Co.

N. J., Bayonne
Nucoa Butter Co.

N. J., Belleville
Eastwood Chemical Co.

N. J., Bloomfield
Condensite Co. of America

N. J., Bound Brook
American Chemical Products Co.
Atlas Mineral Products Machine Co.
Calco Chemical Co.
Hemingway & Co., Inc.
Peerless Color Co.

N. J., Bound Rock
King Chemical Co.

N. J., Bridgeton
Crystal Sand Co.

N. J., Camden
American Oxygen Co.
Hollingshead Co., R. M.
MacAndrews & Forbes Co., 3d St. and Jefferson Ave.
Mechling Bros. Mfg. Co.
Taylor, White Extracting Co., Cooper River and Pine St.
Waverly Chemical Co., 6th, Everett and Atlantic Ave.

N. J., Carlstadt (Beger County)
Franco-American Chemical Works, Inc.

N. J., Edgewater
Spencer Kellogg & Sons, Inc.

N. J., Elizabeth
Bayway Chemical Co.
Gilchrist Co., Robt.
Moore Bros. Co.

N. J., Haledon
Macky Wood Aniline Co., Inc.

N. J., Harrison
National Oil Products Co.

N. J., Jersey City
Colgate & Co.
Davey Sons, W. O.
Dixon Crucible Co., Joseph
Hinton Chemical Co.
Holbrook Mfg. Co.
Interstate Chemical Co., 667 Garfield Ave.
Lamar Chemical Co., 44-56 Lewis Ave.
Natural Products Refining Co.
Onyx Oil & Chemical Co.
Reed & Carnwick, 42 Germania Ave.
Seydel Mfg. Co., Forrest and Holliday Sts.
Williams & Sons, E. A.

N. J., Lincoln
Atlas Mineral Products Co., The

N. J., Matawan
Chrome Color Works
Munning Loeb Co.

N. J., Maurer
American Smelting & Refining Co.

N. J., Maywood
Citro Chemical Products Co.
Shaefer Alkaloid Works

N. J., Metuchen
Acme Dyestuff & Chemical Co., Durham Ave.

N. J., Newark
American Oil & Supply Co., 52 Lafayette Ave.
American Platinum Works, 231 New Jersey Railroad Ave.
American Synthetic Dyes, Inc.
American Ultramarine & Globe Aniline Works, Hamburg Pl.
Baker & Co., Inc., Murray and Austin Sts.
Brunswick Chemical Co.
Camden Coke Co., Broad and Bank Sts.
Cawley, Clark & Co.
Central Chemical Co.
Central Dyestuff & Chemical Co., Plum Pt. Lane
Columbus Crystal Co.

Haack & Co., 800 Broad St.
Hanson & Van Winkle Co., 269 Oliver St
Hoff, Johann, 42 Jaliff St.
Keystone Dyestuff & Chemical Co.,671 Broad St.
Lister Agricultural Chemical Works
Martin Dennis Co.
Murphy Varnish Co., Chestnut and McWhorter Sts.
Rubber & Celluloid Products Co., 65 Ferry St.
Sherwin, Williams Co., Lister and Brown Sts.
Stewart & Co., C. H.
Verona Chemical Co.

N. J., New Brunswick
Antimony & Compound Co. of America, P. O. Box 293
Johnson & Johnson
Squibb & Cox., E. R.
United States Nickel Co.

N. J., Old Bridge
Bloomfield Mills Co.

N. J., Passaic
American Color Mfg. Co., Gregory Ave. and River Rd.
*Wolf, Jacques & Co.

N. J., Pennington
Westover Chemical Co.

N. J., Perth Amboy
Didier-March Co.
May Chemical Co., F. L.
National Synthetic Co.
Raritan Copper Works

N. J., Phillipsburg
Baker Chemical Co., J. T.
Ingersoll-Rand Co.

N. J., Plainfield
Browne-Ferrar Co.

N. J., Sewaren
Vulcan Detinning Co.

N. J., Stewartsville
Edison Portland Cement Co.

N. J., Trenton
Golding Sons & Co., S.
Empire Rubber Tire Co.
Home Rubber Co.
Katzenbach & Bullock Co.
Stokes Rubber Co., Jos.
Universal Fiber Co.
Utah Potash Co., The

N. J., Wallington
Anderson Chemical Co.

N. J., West Hoboken
Palisade Mfg. Co.

N. J., West Orange
Lippincott Chemical Co.

Nev., Reno
Neo Mfg. Co., P. O. Box 672

N. Y., Albany
Albany Chemical Co.
Mendelson Son, A.
Wander & Son Chemical Co., S., 135 Church St.

N. Y., Asbury
Asbury Graphite Mills

N. Y,. Batavia
Genesee Chemical Co.

N. Y., Binghamton
Ansco Co.
Binghamton Oil Refining Co.
Chenango Chemical Co.

N. Y., Brooklyn
Bendick Co., The, 60 York St.
Bristo Myers Co., 281 Greene Ave.
Burns Supply Co., E. Reed
Commonwealth Color & Chemical Co., Butler St.
Crescent Chemical Mfg. Co., Van Brunt and Beard Sts.
Cresol Chemical Co., 10 Van Buren St.
Davis Oil Co., 95 9th St.
Fraser Tablet Co., 453 19th St.
Giuseppe Ferlazzo Co.
Higgins & Co.. Chas. M., 271 9th St.
Highfield, John W., 248–252 N. 10th St.
Hoagland Laboratories, Pacific and Henry Sts.
Hoffman & Kropff Chemical Co., Meeker and Porter Sts.
Huber Brewing Co., Otto, 1 Bushwick Pl.
Iridescent Dyestuff & Chemical Co., 247 Bush St.
Knappman & Co., William, Grand and Metropolitan Aves.
*Marx & Rawolle, Inc., 100 William St.
Masury & Son, J. W., 50 Jay St.
*Miner-Edgar Co., 52 Warren St.
Moller & Schumann Co., Macoy and Flushing Ave.
Moore & Co., Benj., 231 Front St.
Robinson Bros., Montrose and Seneca Aves.
Sternau & Co., S., 160 John St.
Wiarda & Co., John C., 273 Green St.
Williamsburg Chemical Co., Inc., 230 Morgan Ave.
Zobel & Co., E.

N. Y., Buffalo
Buffalo Fertilizer Co., 62 Pearl St.
Buffalo Fertilizer Works, Marine Natl. Bank Bldg.
Buffalo Foundry & Machine Co., 43 Winchester Ave.
Buffalo Potash & Cement Corporation, Buffalo Union Furnace Co.
Cataract Refining & Mfg. Co.
Century Mfg. Co., 272 W. Genesee St.
Century Varnish Co., 272 W. Genesee St.
Contact Process Co., P. O. Drawer 98.
Dold Packing Co., Jacob, 745 William St.

Eastern Oil Co., Fidelity Bldg.
Empire Drug Co., 86 Seneca St.
Hayman & Co., M. E., Ferry and N. Y. Central Railroad
Hoefner & Sons, A., 160 Van Rensselaer St.
Kellogg & McDougall
Lackawanna Steel Co.
Larkin Co.
Longman & Martinez, 207 Pearl St.
Mann Bros. Co., 332 Ohio Ave.
Oneida Lime Co., Ltd., Peoples Bank Bldg.
Pratt & Lambert, Inc., 75–97 Tonawanda St.
Scnoellkopf Aniline & Chemical Works, Inc.
Slade Co., Chas. F., 36–38 Washington St.
Spencer, Kellogg & Sons, Inc.
Wolff Hide Co., 32 Lloyd St.
Wood Products Co.

N. Y., Chauncey (Westchester Co.)
Stauffer Chemical Co.

N. Y., Cook's Falls
Beaverkill Dye Works

N. Y., Cortland
Ekenberg Co., The

N. Y., Elmira
Thatcher Mfg. Co.

N. Y., Glen Falls
Imperial Color Works, Inc.
Imperial Dyewood Co.

N. Y., Gouverneur
Ontario Talc Co.

N. Y., Hastings-on-Hudson
Zinsser & Co.

N. Y., Jones Point
Kaolin Products Co.

N. Y., Kingston
Nitrated Chemicals Co.
Nitro Powder Co.

N. Y., Lackawanna
Lackwanna Steel Co.

N. Y., Leroy
Empire Powder Corporation
Genesee Pure Food Co.

N. Y., Little Falls
Burrell & Co., D. H.
Hansen's Laboratory, Inc., Chr.

N. Y., Long Island City
American Druggists Syndicate
Horn Holland Co., Horn Bldg.
Oakes Mfg. Co.
Smith & Co., Edw.
United States Dye Extracts Co., Inc.

N. Y., Mechanicsville
Werner Extract Co.

N. Y., Methol
Leighton Co., Arthur

N. Y., Monticello
Mont Color & Chemical Co.
Synfleur Scientific Laboratories

N. Y., Newark
Stuart & Co., C. H.

N. Y., New Lebanon
Tilden Chemical Co.

N. Y., New York City
Ackerman Co., H. R., 65 Fulton St.
Adler Color & Chemical Works, 100 William St.
Aetna Explosive Co., Inc., 120 Broadway
Air Reduction Sales Co., Inc., 120 Broadway
Albany Lubricating Co., 708–710 Washington St.
Alberene Stone Co., 223 E. 23d St.
Alcohol Utilities Co., 40 Exchange Pl.
*Alexander & Co., Inc., G. S., 61 Broadway
Amalgamated Dyestuff & Chemical Works, Inc., 75 Hudson St.
American Agricultural Chemical Co., 2 Rector St.
American Aniline Products, Inc., 8 Fifth Ave.
American Carbonate Co., 430 E. 19th St.
American Coal Products Co., 17 Battery Pl.
American Color Mfg. Co., 98 Park Pl.
American Condiments Co., 44 Vesey St.
American Cotton Oil Co., 65 Broadway
American Cyanamide Co., 511 5th Ave.
*American Distributing Co., 750 Washington St.
American Dyewood Co., 80 Maiden Lane.
American Hard Rubber Co., 9 Mercer St.
American Linseed Co., Woolworth Bldg.
American Maize Products Co., 135 William St.
American Metal Co., 61 Broadway
American Smelting & Refining Co., 120 Broadway
American Steel Co., 61 Broadway
American Synthetic Dyes Co., Inc., 61 Broad St.
*American Trading Co., 25 Broad St.
Anderson & Co., P. E., 99 John St.
Androvette & Townsend, 235 Water St.
Ansbacher & Co., A. B., 527 Fifth Ave.
Arabol Mfg. Co., 100 William St.
Archibald & Lewis Co., 124 Front St.
Argentine Quebracho Co., 17 Battery Pl.
Arlington Co., The, 725–727 Broadway
Arnhold, Karberg & Co., 21 State St.
Arnold, Hoffman & Co. Inc., 61 Broadway
Arnold & Zeiss, 277 Broadway

Asphalt Construction Co., 208 Broadway
*Associated Producers Co., 11 Broadway
Atlantic Turpentine Co., 175 Front St.
Atlantic White Lead & Linseed Oil Co., 111 Broadway
Babbitt, B. T., 11 Broadway
Baeder, Adamson & Co., 67 Beekman St.
Baker & Bro., H. J., 100 William St.
Baker & Co , 30 Church St.
Balfour, Williamson Co., 43 Exchange Pl.
Baltic Chemical Co., 183 Duane St.
Barrett Co., 17 Battery Place.
Battelle & Renwick, 80 Maiden Lane
Bauer & Black, 104 E. 25th St.
Bauer Chemical Co., Inc., The, 30 Irving Pl.
Bauer, Philip Co., 68 Broad St.
Bayer Co., The, 117 Hudson St.
*Beer Sondheimer & Co., Inc., 61 Broadway
Beggs & Co., E. J., 92 William St.
*Behrend, F., 54 Front St.
Belden & Co., A. G., 145 Maiden Lane
Benham & Noyes, 10 Broadway
Berlin Aniline Works, 213 Water St.
Berry Bros., 262 Pearl St.
*Bichels & Techow, 98 Maiden Lane, New York City
*Binney & Smith Co., 81 Fulton St.
*Bischoff & Co., C., Inc., 451 Washington St.
Blanchard Co., J. A., 30 Church St.
Bloch Chemical Co., 67 Fifth Ave.
Bon Ami Co., 17 Battery Pl.
Borne-Scrymser Co., 80 South St.
Bowker Chemical Co., 60 Trinity Pl.
Boyer Co., Inc., 117 Hudson St.
Brandes Chemical Co., 8th Ave and 34th St.
Brandes Co., The, 8th Ave. and 34th St.
Brassord Co., Inc.
Bredt & Co., F., 240 Water St.
Britt, Loeffler & Weil, 255 Canal St.
Bromund Co., E. A., 356 W. Broadway
Bruna & Co., A. W., Produce Exchange Annex.
Burroughs & Co., James S., 56 Pine St.
Bush & Co., W. J., 100 William St.
Butler Chemical Co., 25 Beaver St.
Bush, Beach & Gent, Inc., 80 Maiden Lane
Butterworth-Judson Co., 61 Broadway
Calman & Co., Emil, 100 William St.
Camden Chemical Co., 42 Broadway
*Campbell, C. W., 11 Cliff St.
Campbell & Co., John, 75 Hudson St.
Carbondale Calcium Co., 50 Church St.
Casein Co., 11 Pine St.
Casella Color Co., 182 N. Front St.
Celite Products Co., 11 Broadway
Cellulois Zapon Co., 200 Fifth Ave.
*Century Colors Corporation, 182 Front St.
*Chacon Trading Co., 82-92 Beaver St.
Chaskel Chemical Works, 265 W. Broadway
Chemical Co. of America, Inc., 28 Platt St.
*Chemical Importing & Mfg. Co., 90 West St.
Chemical Mfg. Co., 48 Gold St.
Chiris Co., Antoine, 20 Platt St.
*Chromos Chemical Co., Inc., Aeolian Hall
*Chrystal, Chas. B., 11 Cliff St.
Church & Dwight Co., 27 Cedar St.
Clare Mfg. Co., 8th Ave. and 34th St.
Clinchfield Products Co., 120 Broadway
Coe-Mortimer Co., 51 Chambers St.
Coignet Chemical Products Co., Inc., 17 State St.
Columbia Chemical Works, 11 Broadway
*Columbia Naval Stores Co., 17 Battery Place.
*Cone, Fredk. H., 176 Front St.
Consolidated Color & Chemical Co., 122 Hudson St.
Consolidated Dental Mfg. Co., 134 Washington Pl.
*Consumers Chemical Corporation, 24 Broad St.
Cook Oil Co., 148 Front St.
Cook's Sons, Adam, 708 Washington Ave.
Cooper & Co., Chas., 194 Worth St.
Corn Products Refining Co., 17 Battery Pl.
Corrizo Extract Co., 211-215 W. 20th St.
Cosmic Aniline Works, Inc., 8 W. Broadway
*Coulston & Co., J. W., 80 Maiden Lane
Croeniger & Co., 99 Wall St.
Croton Chemical Co., 14 Cedar St.
*Dana & Co., 111 Broadway
Davids Co., Thaddeus, 95 Vandam St.
DeBrook Co., Inc., 135 William St.
Delbrook Co., 135 William St.
*De Lisser & Co., 457 W. 26th St.
*DeRonde & Co., Abram, 228 Front St.
DeVoe, F. W. & C. T. Raynolds Co., Fulton and Williams Sts.
Diamond Gelatine Co., 127 Water St.
Diamond Glue Co., 127 Water St.
*Dicks, David Co., Inc., 302 Broadway
*Dicks, David & Bradfoot, Inc., 302 Broadway

Dickerson, Van Dusen & Co., 32 Cliff St.
Dodge & Olcott Co., 87 Fulton St.
*Doggett, Stanley, John and Cliff Sts.
*Doherr, Grimm & Co., 87 Gold St.
*Dorl & Co., F., Park Row Bldg.
*Downes & Co., Inc., 102 Fulton St.
Drakenfeld & Co., B. F., 50 Murray St.
*Drug & Dyestuff Corporation, 120 Broadway
Duche & Sons, T. M., 554 Broome St.
*Dunn & Kruse, 53 Park Row
Dupont Chemical Works, 120 Broadway
Durex Chemical Co., 320 Fifth Ave.
Durkee & Co., E. R., 534 Washington St.
*Dye Products & Chemical Co., Inc., 200 Fifth Ave.
Eagle Color & Chemical Co., 4 Cedar St.
*Earle, E. P., 165 Broadway
Edgertyn Aniline Corp., 118 William St., New York City
Egyptian Lacquer Mfg. Co., 152 Front St.
Eimer & Amend, Third Ave., 18th to 19th Sts.
Eissing Chemical Co., 225 Fifth Ave.
*Elbert & Co., Produce Exchange
Elector Bleaching Gas Co., 25 Madison Ave.
Electro Metallurgical Co., 42d St. Bldg.
Erkenbrach Co., Geo A., 115 Maiden Lane.
*Ernken Chemical Co., 175 South St.
European Color & Chemical Co., 154 Nassau St.
Fairchild Bros. & Foster, 74 Laight St.
Fann & McJunkin, 50 E. 41st St.
Farbwerke-Hoechst Co., 122 Hudson St.
Farrell, William J., 115 Maiden Lane
*Farquhar, H. D., 230 W. 17th St.
Federal Dyestuff & Chemical Co., 2 Rector St.
Feuchtwanger & Co., Inc., L., 54 Fulton St.
Fleischmann Co., 699 Washington St.
Florasynth Laboratories, Inc., 231 Pearl St.
Foamite Fire Extinguisher Co., 200 Fifth Ave.
*Fougera & Co., E., 90 Beekman St.
Franco-American Chemical Co., Inc., 246 Water St.
*Franco-Swiss Colours Co., 61 Broadway
*Freeman & Co., R. B., 96 Wall St.
Freeport Sulphur Co., 61 Broadway
*Fries & Fries, 121 W. 3rd St.
*Fritzsche Bros., 82 Beekman St.
*Fuerst Bros. & Co., 2 Stone St.
*Fuller & Co., Ralph L., 2 Rector St.
*Gabriel & Schall, 205 Pearl St.
*Geisenheimer & Co., 134 Cedar St.
General Bakelite Co., 2 Rector St.
General Chemical Co., 25 Broad St.
*General Naval Stores Co., 90 West St.
General Rubber Co., Broadway and 58th St.
Georgia Pine Turpentine Co. of New York, 158 Perry St.
Gillespie & Sons, L. C., 6 Fletcher St.
Gold Leaf Natural Dye Co., 150 Nassau St.
*Gough Co., Wallace L., 10 Bridge St.
*Gould Commercial Co., 22 Whitehall St.
*Gowing & Co., Inc., D. H., 47 W. 34th St.
*Grace & Co., W. R., 1 Hanover Sq
*Graham, Hinkley & Co., 135 Front St.
*Gray & Co., Wm. S., 76 William St.
Griffiths Co., Inc., K. F., 81 Fulton St.
*Grosche & Co., Bruno, 15 Jones Lane
*Gross & Co., Geo. V., 30 Old Slip St.
*Grossmith, T. H., 10 Cedar St.
*Guiterman, Rosenfeld & Co., 35 S. William St.
*Haberman, Joseph, 526 11th Ave.
*Hagemeyer & Brunn, Produce Exchange
*Hammill & Gillespie, 240 Front St.
Hanover Drug Co., 30 Cliff St.
*Hardy, Charles, 50 Church St.
*Haring, Ellsworth, 114–118 Liberty St.
*Harris & Co., A. W., 400 Greenwich St.
*Harshaw, Fuller & Goodwin Co., 100 William St.
*Harvey & Outerbridge, 11 Broadway
*Heine & Co., 7 Platt St.
Hellenic Chemical & Color Co., Inc., 427 W. 13th St.
*Heller, Hirsh & Co., 62 William St.
Heller & Merz Co., 505 Hudson St.
*Hemingway, Inc., Frank I., 82 Beaver St.
Hemingway & Co., Ltd., 1 Broadway
*Hendricks Bros., 49 Cliff St.
*Herman & Herman, Inc., 6 Church St.
Hewitt & Co., C. B. 48 Beekman St.
Heyden Chemical Works, 135 William St.
*Heymann, W. H., 438 E. 59th St.
*Hill & Sons, Edw., 64 Wall St.
Hillier's Son & Co., R., 100 William St.
*Hirsh & Co., Chas. L., 16 Pearl St.
*Hirsh & Son, L., 368 Greenwich St.
Hoffman-La Roche Chemical Works, 440 Washington St.
Holliday-Kemp Co., Inc., 90 William St.

Holliday, Read & Sons, Ltd., 160 Franklin St.
Holz, Herman A., 1 Madison Ave.
Hooker Electrochemical Co., 40 Wall St.
*Hopkins & Co., J. L., 100 William St.
*Horner, James B., 3 Platt St.
*Huber, J. M., 65 W. Houston St.
Hungerford Brass & Copper Co., U. T., 84 Lafayette St.
*Huisking, Chas. L., 5 Platt St.
*Hutchinson, D. W., 94 John St.
*Import Chemical Co., 276 Water St.
Independent Chemical Co., 72 Front St.
Independent Salt Co., 44 Whitehall St.
Indian Refining Co., 17 Battery Pl.
Industrial Chemical Co., 200 Fifth Ave.
*Innis, Speiden & Co., 46 Cliff St.
International Agricultural Corporation, 165 Broadway
International Nickel Co., 43 Exchange Place
International Oxygen Co., 115 Broadway
International Pulp Co., 41 Park Row
International Smokeless Powder & Chemical Co., 140 Cedar St.
*Jaeck Co., Louis, 257 Front St.
Jamaica Dyewood & Chemical Co., 50 Church St.
*Jardine, Matheson & Co., Ltd., 63 Wall St.
*Job & Co., W. & S., 68 Broad St.
Johnson & Johnson, 100 William St.
Johns-Manville Co., H. W., Madison Ave. and 41st St.
*Jones Chemical Co., E. F., 51 Jay St.
*Jordan, William E., 11 Cliff St.
Kalbfleisch Corporation, 31 Union Sq., W.
Kalle & Co., 530 Canal St.
Kasebier-Chatfield Shellac Co., 175 Pearl St.
Katzenbach & Bullock Co., 100 William St.
Kelly Graphite Mills, 534 W. 22d St.
*Kern Commercial Co., 114 Liberty St.
*Ketchum & Co., 65 Fulton St.
*Klipstein & Co., A., 644 Greenwich St.
Knowles, Bradley & Co., 88 Wall St.
Kohnstamm & Co., H., 87 Park Pl.
*Kuttroff, Pickhardt & Co., Inc., 128 Duane St.
*Lamson & Bro., Inc., John L., 80 Maiden Lane
L. & R. Organic Products Co., Inc., 8 Gold St.
*Laranburg, Fred L., 100 William St.
*Larendon, M. W., 82 Wall St.
*Lascelles & Co., A. S., 10 Bridge St.
*Lathrop & Co., Inc., H. R., 200 Water St.
*Lavanburg, Fred, 100 William St.
*Leaman, W. & A., 14 State St.
*Leavitt & Co., C. V., 36 Church St.
Lederle Laboratories, 39 W. 38th St.
*Leggett & Bro., 301 Pearl St.
Lehn & Fink, Inc., 120 William St.
*Lengfelt & Co., F. H., 100 Maiden Lane
Lenz Apparatus Co.
Lieber & Co., Inc., H., 14 Platt St.
Linde Air Products Co., 30 E. 42d St.
Lister Agricultural Chemical Works 2 Rector St.
*Lockwood, Brackett & Co., 949 Broadway
*Longman & Martinez, 207 Pearl St.
*Lueders & Co., Geo., 218 Pearl St.
*Maas & Waldstein Co., 100 William St.
Madero Bros., Inc., 115 Broadway
*Magnus, Maybee & Reynard, 257 Pearl St.
Malt-Diatase Co., 79 Wall St.
*Manning-Loeb Co., 50 Church St.
*Mapes Formula & Peruvian Guano Co., 143 Liberty St.
Marden, Orth & Hastings Corporation, 61 Broadway
*Marell Chemical Co., The, 25 Beaver St.
Marks Dye Mfg. Co., Inc., 484 Broadway
Marx & Rawolle, Inc., 100 William St.
*Matthews, John, 333 E. 26th St.
*Maurer, Edw., 80 Maiden Lane
*McCotter & Co., S. G., 16 Platt St.
McKesson & Robbins, Inc., 91 Fulton St.
Merck & Co., 45 Park Pl.
Mertz & Co., H. A., 122 Hudson St.
Metal & Thermit Corporation, 120 Broadway
*Meyer, G. A. & E., 59 Maiden Lane
*Meyer & Brown, 35 S. William St.
Middlesex Aniline Co., Inc., 149 Broadway
Milligan & Higgins Glue Co., 17 State St.
*Mitsui & Co., 25 Madison Ave.
Monmouth Chemical Co., 106 Wall St.
Monx Color & Chemical Co., 90 Wall St.
Monsanto Chemical Works,
Morana Compagnie, 184 Fifth Ave.
Morgan's Sons, E., 439 West St.
*Morningstar & Co., C., 233 Broadway
*Mortimer & Co., 68 Beaver St.
*Muhlethaler Co., The, 80 John St.
Mutual Chemical Co., of America, 55 John St.

Nassau Smelting & Refining Works, 607 W. 29th St.
National Ammonia Co., 30 Platt St.
National Aniline & Chemical Co., Inc., 244 Madison Ave.
National Carbon Co., Inc.
National Color & Chemical Works, 59th St. and 11th Ave.
National Gum & Mica Co., 59th and 11th Ave.
National Lead Co., 111 Broadway
National Milk Co., 11 Pine St.
National Paint Works, 100 William St.
New Jersey Asbestos Co., 1 Water St.
New Jersey Products, Inc., 165 Broadway
New Jersey Zinc Co., 55 Wall St.
New Process Chemical Co., Inc., 39 Cortlandt St.
New York Color & Chemical Co., 212 Pearl St.
New York Commercial Co., 20 Vesey St.
*New York Quebracho Co., 80 Maiden Lane
New York Quinine & Chemical Works, Ltd., 114 William St.
Niagara Coke Corporation, 6 Church St.
Nichols Copper Co., 25 Broad St.
*Nitrate Agencies Co., 104 Pearl St.
Norton Laboratories, 296 Madison Ave.
Nucoa Butter Co., The, 133 Front St.
Oakland Chemical Co., 10 Astor Pl.
*Obalski & Sweeney, 24 Stone St.
Organic Products Corporation, 469 State St.
*Osborn Co., C. J., 132 Nassau St.
*Oxford Tripoli Co., 11 Broadway
Pacific Coast Borax Co., 100 William St.
*Palo Co., 90-94 Maiden Lane
Parex Mfg. Co., 249 Pearl St.
Pasteur Laboratories, 366 W. 11th St.
*Patterson, Boardman & Knapp, 10 Bridge St.
*Patterson & Co., G. W. S., 133 Front St.
Peace Dale Phosphate Mining Co., 2 Rector St.
*Peek & Velsor, 9 Gold St.
Pennsylvania & Delaware Oil Co., 90 West St.
Perfenol Products Co., Inc., 39 W. 38th St.
Perolin Co. of America, Woolworth Bldg.
Perth Amboy Chemical Works, 100 William St.
*Peters, White & Co., 55 John St.
*Pfaltz & Bauer, Inc., 300 Pearl St.
*Pfizer & Co., Chas., 81 Maiden Lane
*Philipp Bros., Inc., 29 Broadway
Phosphate Mining Co., 55 John St.
Eagle-Picher Lead Co., 100 William St.
Platt & Washburn Refining Co., 11 Broadway
Plymouth Organic Laboratories, 65 Ann St.
Port Morris Chemical Works, 141 Locust Ave.
Prairie Pebble Phosphate Co., 165 Broadway
Preservaline Mfg. Co., 854 Loumer St.
Prest-O-Lite Co.
Randell & Co., F. L., 197 Pearl St.
*Ransom Co., L. E., 279 Pearl St.
Raritan Copper Works
*Raw Products Co., 121 Front St.
Rector Chemical Co., 2 Rector St.
Reliance Aniline & Chemical Co., 100 Broadway
Reynolds & Devoe Co., 103 Fulton St.
Robbins Mining Co., A. A., 99 John St.
*Rockhill & Vietor, 22 Cliff St.
*Riker, J. L. & D. S., 19 Cedar St.
Roessler & Hasslacher Chemical Co., 100 William St.
Roger & Gallet, 25 W. 32d St.
Roger-Pyatt Shellac Co., 81 Water St.
*Rosin & Turpentine Export Co., 26 Cortlandt St.
Royal Chemical Co., 538 W. 53d St.
*Rubber Trading Co., 38 Murray St.
St. Lawrence Talc Co., Inc., 7 E. 42d St.
*Saklat & Co., A. H., 87 Front St.
*Salomon & Bro., L. A., 216 Pearl St.
*Salzgeber, George H., 109 St. George St.
Saxe Chemical Co., 99 Nassau St.
*Schell Chemical Co., Inc., 56 Pine St.
Schell William H., 159 Maiden Lane
*Schering & Glatz, 150 Maiden Lane
*Schieffelin & Co., 170 William St.
Seabury & Johnson, Inc., 59 Maiden Lane
*Sealy, Thomas, 142 Front St.
Segal & Co., Inc., George H., 95 William St.
*Seligmann, Arthur, 165 Broadway
*Sembrada & Co., J. S., 129 Front St.
*Sergeant & Co., E. M., 95 Madison Ave.
Sharpe & Dohme, 41 John St.
*Simeon & Elting, 93 Nassau St.
Sinclair & Valentine Co., 611 W. 129th St.
*Sloan & Russell, Inc., 132 Nassau St.
*Smith & Co., J. Lee, 23 Jacob St.
*Soltau & Co., Robert, 75 John St.
Sonneborn Sons, L., 262 Pearl St.
Southern Cotton Oil Co., 120 Broadway
Southern Cotton Oil Co., 24 Broad St.
Squibb & Sons, E. R., 82 Beekman St.

*Stallman Co., 229 Pearl St.
Stamford Mfg. Co., 88 Wall St.
Standard Aniline Co., 366 Fifth Ave.
Standard Color Works, 55 Liberty St.
Standard Distilling & Distributing Co., 27 William St.
Standard Oil Co., 26 Broadway
Standard Wax & Import Co., 95 William St.
*Stanley, Jordan & Co., 116 Broad St.
Stein, Hall & Co., 66 Broadway
*Stillwell Co., A. A., 28 Cliff St.
*Strahl & Pitsch, 141 Front St.
*Strohmeyer & Arpe Co., 139 Franklin St.
*Sundheimer, Henry, 35 Nassau St.
*Swan & Co., A. G., 135 Front St.
Swan & Co., Alden S., 133 Front St.
Swan & Finch Co., 151 Maiden Lane
Suziki & Co., S., 13 Park Row
*Taft & Co., J. H., 100 William St.
*Taintor Mfg. Co., H. F., 2 Rector St.
Takamine Laboratory, Inc.
Tartar Chemical Co., 135 William St.
*Taylor Commission Co., Geo. F., 80 Pine St.
*Tennant Sons & Co., C., 100 William St.
Texas Co., 17 Battery Pl.
Thurston & Braidick, 130 William St.
*Tieman & Co., M. F., 100 William St.
Tidewater Oil Co., 11 Broadway,
Toch Bros., 320 5th Ave.
*Traders Chemical Co., 1 Liberty St.
Transatlantic Chemical Corporation, 80 Wall St.
Uchida Trading Co., Ltd., The, 120 Broadway
*Ulrich & Co., Paul, 11 Cliff St.
Ultramarine Co., Potter Bldg.
Ungerer & Co., 273 Pearl St.
Union Carbide Co., 42d St. Bldg.
Union Seed & Fertilizer Co., 65 Broadway
Union Sulphur Co., 17 Battery Pl.
Union Talc Co., 132 Nassau St.
United Aniline & Chemical Works, Inc., 377 Broadway
United Dyewood Corporation, 80 Maiden Lane
United Lead Co., 111 Broadway
U. S. Alloys Corporation, 30 E. 42d St.
U. S. Asphalt Refining Co., 90 West St.
U. S. Industrial Alcohol Co., 27 William St.
U. S. Metal Refining Co., 42 Broadway
United States Smelting Co., Inc., 120 Broadway
United States Varnish Co., 41 Park Row
Vacuum Oil Co., 61 Broadway
Valentine & Co., 456 4th Ave.
Valvoline Oil Co., 11 Broadway
*Van Brunt & Co., J. A., 114 John St.
*Van Dyk & Co., 6 Platt St.
*Van Dyk, L. A., 90 W. Broadway
Virginia Electrolytic Co., 99 Cedar St.
Vulcanized Rubber Co., 251 4th Ave.
*Waddell & Co., R. J., 52 Beekman St.
*Waldo, E. M. & F., 11 Broadway
Warner Chemical Co., 52 Vanderbilt Ave.
*Warner-Quinlan Asphalt Co.
Webb & Son, James A., 50 Stone St.
*Welch, Holme & Clark Co., 381 West St.
*Wessel, Duval & Co., 25 Broadway
West Disinfecting Co., 411 Fifth Ave.
West Indies Chemical Works, 80 Maiden Lane
White Star Co., 6 Cliff St.
White Tar Co., 6 Cliff St.
White Co., T. & S. C., 100 William St.
*Whittaker Co., W. H., 252 Front St.
*Wilckes-Martin-Wilckes Co., 135 William St.
*Williams & Co., Inc., John T., 100 Broadway
Williams Mfg. Co., 1947 1st Ave.
Williamson & Co., 120 Broadway
Williamson & Co., D. D., 86 Fulton St.
*Wilson & Co., 45th and 1st Ave.
*Wing & Evans, 22 William St.
*Wood, Inc., J. Early, 21 Platt St.
Wright Chemical Corporation, 38 Park Row
*Zinkheisen & Co., 135 William St.
Zinsser & Co., Wm., 195 William St.
Zobel Co., Inc., Ernest, 38 Water St.

N. Y., Niagara Falls
American Magnesium Corporation
Carborundum Co.
Castner Electrolytic Alkali Co.
Electro Metallurgical Co.
Hooker Electrochemical Co.
National Electrolytic Co., Hydraulic Canal Basin
Niagara Alkali Co.
Titanium, Alloy Mfg. Co.
Titanuim Pigment Co., Inc.

N. Y., Norwich
Norwich Pharmacal Co.

N. Y., North Tonawanda
Synthetic Products Co.

N. Y., Olean
Lackawanna Chemical Co.

N. Y., Ossining
Ossining Chemical Works

N. Y., Owego
American Casein Co.
National Casein Co.

N. Y., Pearl River
Lederle Antitoxin Laboratory

N. Y., Peekskill
Fleischmann Mfg. Co
Mackellar's Sons Co., R.

N. Y., Penn Yan
Taylor Chemical Co.
N. Y., Perth Amboy
National Synthetic Co.
N. Y., Rochester
American Photo. Chemical Co., Inc. 26 Forbes St.
Bausch & Lomb Optical Co.
Eastman Kodak Co.
Shinola Co., 8-28 Jay St.
Smith Co., J. Hungerford
Vacuum Oil Co.
N. Y., Rosebank
Austen Mfg. Co., Perry
Dreyfus Co., L. A.
Siegle Co., G.
N. Y., Saratoga Springs
Harvey & Co., G. F.
N. Y., Schenectady
Organic Products Corporation
N. Y., Solvay
Solvay Process Co.
N. Y., Syracuse
*Gowing & Co., D. H., 242 W. Jefferson St.
Porter & Clancy, 200 James St.
Semet-Solvay Co.,
Solvay Process Co.
Will & Baumer Co.
N. Y., Troy
Eddy's Titus, Son
Thompson Sons & Co., John L.
N. Y., Waterloo
Industrial Distilling Co.
N. Y., Wappingers Falls
Standard Aniline Products, Inc.
N. Y., Yonkers
Palisade Mfg. Co.
N. C., Asheville
Betts & Co., Anson G.
Georgia Talc Co.
N. C., Bessemer City
Lawton, Chas. L.,
N. C., Dillsboro
Harris Clay Co.
N. C., Raleigh
Caraleigh Phosphate & Fertilizer Co.
N. C., Stackhouse
Carolina Barytes Co.
Gahagan, B. W.
Stackhouse, A. & C.
N. C., Wilmington
Acme Mfg. Co.
National Wood Products Co.
Navassa Guano Co. of Wilmington
Spirittine Chemical Co.
Ohio, Akron
Akron Varnish Co.
Buckeye Chemical Co.
Faultless Rubber Co.,
Goodyear Tire & Rubber Co.,
Ohio, Amherst
Briggs Chemical Works Co.
Ohio, Barberton
Columbia Chemical Co.
Ohio, Bedford
Franklin Oil & Gas Co.
Ohio, Cincinnati
Alexander Co., M. H., 226 E. Front St.
American Chemical Co., 642 Carr St.
American Diamalt Co., 308 W. 4th St.
Ault & Wiborg
Berghausen Chemical Co., E., 307 E. 2d St.
Buckeye Cotton Oil Co.
Burckhardt Co., 525 Eggleston St.
Carey Co., Philip
Chatfield Mfg. Co., 3d and Plum Sts.
Cincinnati Abattoir Co., 3241 Spring Grove Ave.
Cincinnati Extract Works Co., 226 E. Pearl St.
Cincinnati Oil Works Co., 525 Eggleston Ave.
Clifton Springs Distilling Co., Station "A"
Elkhorn Chemical Co., Elsinore and Gilbert Aves.
Elkhorn Mining & Mfg. Co., 58 Main St.
Fleischmann Co., 419 Plum St.
Frank Tea & Spice Co., 716 E. 3d St.
Gates Aniline Products Co.
Globe Chemical Co., 1135 Regent Ave.
Globe Chemical Co., 1205 Regent Ave.
Harkness & Cowing Co., Murray Ave. and Carthage Peak
Jarecki Chemical Co.
Joslin-Schmidt Co., 3223 Spring Grove Ave.
Kalmus Chemical Co., Kalmus Bldg.
Lloyd Bros., Plum and Court Sts.
Merrell Chemical Co., Wm. S., 5th and Pike Sts.
Missouri Chemical Works
Moore Oil Co., York and McLean Ave.
Prince Co., L. M., 108 W. 4th St.
Proctor & Gamble Distributing Co., Gwyne Bldg.
Union Distilling Co., 3rd and Race Sts.
Walsh & Co., Jas., Union Trust Bldg.
*Winkler & Bro. Co., Isaac, 804 First National Bank Bldg.
Ohio, Cleveland
American Steel & Wire Co., Western Reserve Bldg.
Atlantic Paint Co., Bessemer Ave. and P. R. R.
Atlantic Refining Co., Garfield Bldg.
Atlas Oil Co., Rose Bldg.
Brooks Oil Co., 3304 E. 87th St., S. E.
Canfield Oil Co.
Chemical Supply Co.
Clark Co., F. G., 1099 W. 11th St., N. W.

Cleveland-Cliffs Iron Co., Rockefeller Bldg.
Columbia Graphite Co.
Consumers' Rubber Co., 829 Superior Ave., N. W.
Dover By-Products Coke Co., Leader-News Bldg.
Fleming Chemical Co., The, 1711 Crawford Road
Forest Paint & Varnish Co., 3334 Lakeside Ave.
Glidden Varnish Co., Madison Ave.
Globe Refining Co., Rose Bldg.
Grasselli Chemical Co., Arcade Bldg.
Grasselli Powder Co., Arcade Bldg.
Harshaw, Fuller & Goodwin Co., 317-323 Electric Bldg.
Lennox Chemical Co., 1201 E. 55th St.
National Carbon Co., Madison & Highland Aves.
National Refining Co., Rose Bldg.
Northern Chemical Co., W. 70th, near Detroit Ave., N. W.
Northern Oil Co., Rose Bldg.
Ohio Chemical & Mfg. Co., 1177 Marquette Road
Paragon Refining Co.,
River Furnace Co.
Stowe Fuller Co., Rockefeller Bldg.
Toledo Furnace Co., Western Reserve Bldg.
United Furnace Co., Western Reserve Bldg.
Vulcan Refining Co., Williamson Bldg.
Warren Refining & Chemical Co.
Youngstown Sheet & Tube Co.

Ohio, Columbus
Aetna Graphite Co.,
Harshaw, Fuller & Goodwin Co.
*Laboratory Supply Co., 236 N. 3d St.
Smith Agricultural Chemical Co.,

Ohio, Dayton
Electro Chemical Co.
Lowe Bros. Co.,

Ohio, Findlay
Ohio Oil Co.,

Ohio, Fostoria
Sterizol Co., The, 110-112 E. South St.

Ohio, Hamilton
Hamilton-Otto Coke Co.

Ohio, Jackson
Globe Iron Co.,

Ohio, Lockland
Carey Mfg. Co., Philip

Ohio, Marietta
Marietta Torpedo Co.,
Northwestern Chemical Co.,
Obex Co., The

Ohio, Mineral City
Progressive Rubber Co.

Ohio, Newark
Styron-Beggs Co., The

Ohio, Niles
National Sand & Stone Co.

Ohio, Pomeroy
Pomeroy Salt Association Co.

Ohio, St. Bernard
Werk Co., The M., Murray Ave.

Ohio, Sandusky
Hord Color Products Co., The
Jarecki Chemical Co.
Kroma Color Co.
Syn Galenic Chemical Co.

Ohio, Steubenville
La Belle Iron Works

Ohio, Toledo
Craig Oil Co.
Metzger Seed & Oil Co.,
Ohio Standard Chemical Co., The
Paragon Refining Co.
Sinclair Mfg. Co.
Sun Co.
Toledo-Owens Glass Sand Co.,
Toledo Seed & Oil Co.,
Toledo Stone & Glass Sand Co.
Yaryan Naval Stores Co.

Ohio, Youngstown
Brier Hill Steel Co.
Republic Iron & Steel Co.
Youngstown Sheet & Tube Co.

Ohio, Zanesville
Agnew Torpedo Co.

Okla., Bartlesville
Indian Territory Illuminating Oil Co.

Okla., Chelsea
Chelsea Refining Co.

Okla., Muskogee
Muskogee Refining Co.

Okla., Okmulgee
American Refining Co.
Okla. Sand Springs Mid-Continent Chemical Co.

Okla., Sapulpa
Phoenix Refining Co.
Sapulpa Refining Co.

Okla., Tulsa
Cosden & Co., Inc.

Okla., Vinita
Milliken Refining Co.

Okla., Wapanucke
Dale Mfg. Co., James E.

Ore., Portland
Portland Gas & Coke Co.

Pa., Allentown
Allentown Mfg. Co., The
Pennsylvania Trojan Powder Co.
Princess Metallic Paint Co.

Pa., Ambler
Keasbey & Mattison Co.

Pa., Bradford
American Acid & Alkali Co.
American Alkali & Acid Co.
Emery Mfg. Co.
Kendall Refining Co.
Nusbaum Chemical Co.

Pa., Carbondale
Carbondale Calcium Co.
Pa., Carnegie
Aetna Chemical Co.
Pa., Chester
Philadelphia Suburban Gas & Electric Co.
Pa., Easton
Baker & Adamson Chemical Co.
Papermakers Chemical Co.,
Williams & Co., C. K.
Pa., East-Smithport
Norwich Chemical Co.
Pa., Emporium
Cameron Powder Mfg. Co.
Pa., Erie
Bayerson Oil Works
Hammermill Paper Co.
Watson Co., H. F.
Pa., Fernwood
Moaoc Co., Inc.
Pa., Fort Washington
Columbia Chemical Constructive Co.
Pa., Franklin
Galena Signal Oil Co.
Pa., Freedom
Freedom Oil Works
Pa., Great Bend
Black Horn Leather Co.
Pa., Hanover
Acme Extract & Chemical Works
Young & Co., J. S., Park Ave.
Pa., Johnstown
Union Chemical & Refining Co.
Pa., Lancaster
Lancaster Chemical Co.
Pa., Lockhaven
Stanley Anilin Chemical Works
Pa., Malvern
Bishop & Co., [Platinum Works], J.
Pa., Marcus Hook
Viscose Co., The
Pa., Manayunk
Dye Products Co.
Pa., Marietta
Alexander & Co., H. M.
Pa., Mayburg
Tionesta Valley Chemical Co.
Pa., Mt. Union
Mt. Union Tanning & Extract Co.
Pa., New Brighton
Brighton Chemical Co.
Thorkildsen-Mayer Co.
Pa., Philadelphia
Adams & Co., Jos. M., Main and Dupont Sts.
Air Reduction Co., Inc., Germantown and Sedgley Aves.
American Graphite Co. of Philadelphia, Land Title Bldg.
American Oxygen Co., Perry Bldg.
*Andreykovicz & Dunk, 58 N. Front St.
Ajax Metal Co., 46 Richmond St.
Atlantic Refining Co., 3144 Passyunk Ave.
Atlantic Turpentine & Refining Co., 421 Chestnut St.
Barber Asphalt Paving Co., Land Title Bldg.
Barrett & Sons, Wm., 730 S. Broad St.
Baugh & Sons Co., 20 S. Delaware Ave.
Beckton Chemical Co., 3500 Grays Ferry Rd.
Betz & Son, Jno. F., 415 Callowhill St.
Bick & Undy, 49 S. Front St.
Boley Co., C. H., Randolph St. and Erie Ave.
Bower Chemical Mfg. Co., Henry, 29th & Grays Ferry Rd.
Cambria Steel Co., Widener Bldg.
Carbon Dioxide & Magnesia Co., N., 29th and Montgomery Ave.
Clawson Co., 240 Chestnut St.
Cooper & Co., T. G., 47-49 N. 2d St.
Crew-Levick Co., Land Title Bldg.
Dermatological Research Laboratory
Dill & Collins Co., Richmond and Tioga Sts.
*Dougherty, E., Drexel Bldg.
*Ferguson Bros., 109 Chestnut St.
Fleming Chemical Co., 1711 Crasford Rd.
Foote Mineral Co., 120 N. 19th St.
*Fortner Co., L. B., 36-38 Strawberry St.
Franklin Mfg. Co.
French & Co., Samuel H., 4th and Callowhill Sts.
Fulmer & Apeldorn, 23 S. 9th St.
Graves Co., N. Z., 22 S. 3d St.
Hafleigh & Co., 2813 N. American Ave.
Hagstoz Co., T. B., 709 Sansom St.
Hamilton & Sons, Robt., 709 Tasker St.
Hance Bros. & White, 621 Callowhill St.
Harrison Works, 35th and Grays Ferry Rd.
Hempstead & Sons, O. G., 41 S. 4th St.
Hoffman-Corr Mfg. Co.
Hollingsworth & Peterson, Lafayette Bldg.
Howell & Co., C. H., 212 Race St.
Hires Co., Chas. E., 6 S. 24th St.
Houghton & Co., E. F., 240 W. Somerset St.
Jordan, Jr., W. H. & F., 128 N. Water St.
Kali Mfg. Co., 1408 Front St.
Keller, Robert, 334 N. 3d St.
Lavino & Co., E. J., Bullitt Bldg.
Lennig & Co., Chas., 112 S. Front St.
Lewis & Bros. Co., J. T., Lafayette Bldg.
Lucas & Co., John, 322 Race St.
*McIlvaine Bros., 1500 Hamilton St.

Mantua Chemical Co., 3500 Grays Ferry Rd.
Maxwell's Sons, Jno., 30th and Spruce Sts.
Merchant & Evans Co., 517 Arch St.
*Meyer & Sons, J., 480 Bourse Bldg.
Midvale Steel Co.
Mulford Co., H. K., 412 S. 13th St.
National Ammonia Co., Van Kirk and Delaware River
Ottens Mfg. Co., Henry H., 129 S. Front St.
Paxon Co., J. W., 1022 N. Delaware Ave.
Penn Chemical Works, 1322 Washington Ave.
*Pennsylvania Color Mfg. Co., 248 Chestnut St.
Pennsylvania Salt Mfg. Co., 115 Chestnut St.
Philadelphia Aniline & Extract Co., Bourse Bldg.
Philadelphia Clay Co., 1201 Chestnut St.
Philadelphia Quartz Co., 121 S. 3d St.
Philadelphia Textile Chemical Works, Arnott and P. R. R.
Phillips & Jacobs, 622 Race St.
Powers-Weightman-Rosengarten Co., 9th and Parrish Sts.
Pure Oil Co., Lafayette Bldg.
Reiner & Co., John W., American and York Sts.
Republic Mining & Mfg. Co., Harrison Bldg.
Royersford Foundry & Machine Co., 52 N. 5th St.
Shoemaker & Co., M. L., Ltd., E. Venango near Delaware Ave.
Shoemaker & Co., Robert, 201 N. 4th St.
Smith & Co., C. K., 123 Arch St.
Smith, Kline & French Co., 431 Arch St.
Taylor Co., N. & G., 300 Chestnut St.
*Thomas Co., Arthur H., W. Washington Sq.
Thomas & Son Co., I. P., Drexel Bldg.
Tomson & Co., P. C., 1124 Girard Ave.
Trotter & Co., Nathan, 36 N. Front St.
Tunnell & Co., F. W., 15 N. 5th St.
Twitchell Co., S., 225 Vine St.
Union Casein Co., 2314 Wood St.
Union Petroleum Co., 135 S. 2d St.
United Gas Improvement Co., Broad and Arch Sts.
Vila Color Co., H. S., 243 S. 2d St.
Wagner, Charles A., 222 N. Water St.
Wahl Mfg. Co., Emil, 3970 Pulaski Ave.
Walker, Stratman & Co., Herrs Island
Warner, Wm. R., 639 N. Broad St.
Watt's Sons, John M., 54 N. 2d St.
Westmoreland Chemical & Color Co., 925 Chestnut St.
Woodward & Dickerson, 14 S. Delaware Ave.
Wrigley Mfg. Co., Wayne above Roberts St.
Wyeth Bro., Inc., J., 11th and Washington Ave.

Pa., Pittsburgh

Aluminum Co. of America, Oliver Bldg.
American Bauxite Co., Oliver Bldg.
American Reduction Co., Brushton Ave. and P. R. R.
American Vanadium Co., Vanadium Bldg.
Beck Salt Co., John A., Western and Beaver Aves.
Carnegie Steel Co., Carnegie Bldg.
Columbia Chemical Co., Frick Bldg.
Diamond Alkali Co., Wabash Bldg.
Falk Co. Park Bldg.
Fort Pitt. Oil & Paint Co., 3209 Liberty Ave.
Gulf Refining Co., Frick Bldg.
Hamburger Distillery, Ltd., 706 Arrott Bldg.
Hussey & Co., Bessemer Bldg.
Keystone Bronze Co., 39th and Allegheny Valley Railroad
Lawrenceville Bronze Co., 3046 Pennsylvania Ave.
Macbeth-Evans Glass Co., Wabash Bldg.
*Mortland Chemical Co., 602 Fitzsimmons Bldg.
National Oil & Lead Co. of Pa., Commonwealth Bldg.
National Tube Co., Frick Bldg.
Nevin Co., T. H., Island and Preble Ave.
Northern Aluminum Co., Ltd., 2344 Oliver Bldg.
Pearsite Co., Oliver Bldg.
Pittsburgh-Potosi Lead Co., 5527 Ellsworth Ave.
Pittsburgh Provision & Packing Co., Herrs Island
Pittsburgh White Sand Co., Farmers Bank Bldg.
Radium Chemical Co., Forbes and Meyram Aves.
Republic Chemical Co., Inc., P. O. Box 946
Scaife & Sons, Wm. H., 221 1st Ave.
*Scientific Materials Co., 711-719 Forbes St.
*Snyder's Sons Co., Inc., A. G., 925 S. Canal St., N. S.
Standard Alloys Co., Forbes and Meyran Ave.
Vanadium Metals Co., Forbes and Meyran Sts.
Vitro Mfg. Co., 720 Bessemer Bldg.

Waverly Oil Works Co.,
Wayne Brass Foundry, 4635 Butler St.
Pa., Pittston
Luzerne Chemical Co.
Wyoming Chemical Co.,
Pa., Primos
Primos Chemical Co.
Pa., Reading
Althouse Chemical Co., 500 Pear St.
Gates Aniline Products Co.
Raser & Son, Wm. H.
Reading Chemical Mfg. Co.
Wilhelm Co., The A.
Pa., Scranton
American Color Co.
Ames Color Co.
International Salt Co. of N. Y.
Pennsylvania Paraffine Works,
Salt Mountain Co.
Pa., Sellersville
Radium Co of America
Pa., South Bethlehem
Bethlehem Steel Co.
Pa., Stockertown
Atlantic Potash Co.
Pa., Susquehanna
Pennsylvania Chemical Co.
Wayne Chemical Co.
Pa., Warren
Riverside Acid Works
Warren Chemical Products Co.
Pa., White Haven
Luzerne Ochre Mfg. Co.
Pa., Williamsport
National Paint Works
Pa., York
Hydrofluoric Mfg. Co.
York Chemical Works.
R. I., Phenix
Royal Chemical Co.
R. I., Providence
Agawam Chemical Works, 531 Grosvenor Bldg.
Arnold, Hoffman & Co., Inc., 55 Canal St.
Bush Co., C. S.
Davol Rubber Co.
Everett & Barron Co., Inc., 217 Canal St.
Harris Oil Co., A. W., 326 S. Water St.
Industrial Chemical Co., Inc., P. O. Box 490.
*Lewis, John D., 1209 Turks Head Bldg.
Mathieson Alkali Works
Providence Gas Co.
Rumford Chemical Works, 231 S. Main St.
Scotland, Glasgow
Barr, Ltd., James C., 27, Blythswood Sq.
Gemmill & Co., Wm. N., 142 Queen St.
S. C., Charleston
Combahee Fertilizer Co.
Etiwan Fertilizer Co.
Planters Fertilizer & Phosphate Co.
S. D., Hill City
Black Hills Tungsten Mining & Milling Co.
Spain, Barcelona
Sociedad Anonima Monegal; New York City: Bichels & Techow, 98 Maiden Lane
Switzerland, Basle
Sandoz Chemical Works
Tenn, Chattanooga
Chattanooga Gas & Coal Products Co., James Bldg.
Cherokee Mining Co.
Scholze & Bro., E. W.
Tenn, Columbia
International Phosphate Co.
Tenn., Del Rio
Adams, J. N.
Tenn., Ducktown
Ducktown Sulphur, Copper & Iron Co.
Tenn., Kingsport
Clinchfield Portland Cement Corporation
Federal Dyestuff & Chemical Corporation.
Tenn., Knoxville
Southern Extract Co.
Tenn., Memphis
Forest Products Chemical Co.
Tenn., Nashville
Read Phosphate Co.
Tennessee Chemical Co.
Tennessee Fertilizer Co.
Tenn., Sweetwater
Doherty, J. F.
Durex Chemical Works
Moore, H. J.
Texas, Freeport
Freeport Sulphur Co.
Texas, Houston
Houston Packing Co.
Texas Co.
Texas, New Willard
New Willard Naval Stores Co.
Utah, Marysville
Caraleigh Phosphate & Fertilizer Works
Utah, Ogden
Ogden Wholesale Drug Co.
Utah, Salt Lake City
Utah Chemical Co.
Utah Soap Co.
Utah, St. Marysville
Mineral Products Co.
Utah, Soldier Summit
Wasatoh Ozokerite Co.
Vt., Burlington
Wells & Richardson Co.

Va., Buena Vista
Buena Vista Extract Co.
Va., Charlottesville
Young & Co., H. E.
Va., Clifton Forge
Carolina Feldspar Mica Corporation
Va., Damascus
Smethpont Extract Co., Inc.
Va., Harrisonburg
Excelsior Oak Extract Co.
Va., Ivanhoe
National Carbide Co.
Va., Johnson
American Mineral Co.
Va., Lynchburg
Heald & Co., J. H.
Va., Norfolk
American Fertilizer Co.
Atlantic Chemical Corporation
Royster Guano Co., F. S.
Young Fertilizer Co., J. R.
Va., Petersburg
Southern Chemical Co.
Va., Richmond
Interstate Commerce Co., W. Broad and Meadow Sts.
Sauer Co., C. F.
Sulphur Mining & Railroad Co.
Virginia-Carolina Chemical Co.
Va., Roseland
American Rutile Co.
Va., Saltville
Mathieson Alkali Works, Inc., The
Va., St. Albans
Roessler & Hasslachen Chemical Co.
Wash., Anacortes
Robinson Fisheries Co.
Wash., Seattle
American Nitrogen Products Co., Securities Bldg.
Lilly Co., Chas. H.
Seattle Lighting Co., 360 Stuart Bldg.
West Coast Chemical Co., 6961 Woodlawn Ave.
Wash., Tacoma
Carstens Packing Co.
Mashell Paint Co.
Pacific Coast Gypsum Co.
Standard Chemical Co.
Wash., Valley (Stevens Co.)
American Mineral Production Co.
W. Va., Charleston
Rollin Chemical Co., Inc.
W. Va., Hartford
American Calcium Chloride Works
Mason Coal & Chemical Co.
W. Va., Huntington
Standard Ultramarine Co.
W. Va., Malden
Dickinson Co., J. Q.
W. Va., Wheeling
Kalbitzer Packing Co., C.
Schenk & Sons Co., F.
Wis., Fond du Lac
Huber & Fuhrman Drug Mills
Wis., La Crosse
Langford-Boyd Packing Co.
Wis., Madison
Burgess Mineral Co.
Cleveland Mining Co.
Wis., Marinette
Ansul Chemical Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Blatz Brewing Co., Val.
Corona Chemical Co.
Currie Bros. Co., 312 Broadway
Federal Rubber Co.
Fiebering Chemical Co.
Milwaukee Coke & Gas Co.
Milwaukee Gas Light Co.
National Distilling Co., 79 Buffalo St.
Newport Chemical Works, Inc., 1112 First National Bank Bldg.
Newport Turpentine & Rosin Co., 1112 First National Bank Bldg.
Northwestern Iron Co., First National Bank Bldg.
Patton Paint Co., 213 Lake Ave.
Wis., Racine
Horlick's Malted Milk Co.

III. EQUIPMENT

Abrasives (*see Corundum, Emery*)

Mass., Worcester
Norton Co.
Mich., Detroit
Star Corundum Wheel Co., 241 Cavalry Ave.
N. Y., Blasdell
Exolon Co.
N. Y., New York City
*Schaaf-Regelman, E., 21 State St.
N. Y., Niagara Falls
Carborundum Co.
Pa., Philadelphia
Keystone Emery Mills, 4329 Paul St.
Pa., Pittsburgh
Pittsburgh Crushed Steel Co., Ltd., 61st St. and A. V. Ry.
Wis., Wausau
Wausau Abrasives Co.

Absorption Systems

Mass., Boston
Lummus Co., The Walter E., 173 Milk St.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
General Ceramics Co., 50 Church St.
Thermal Syndicate, Ltd., 50 E. 41st St.

Accumulators, Hydraulic

Ill., Chicago
Elmes Engineering Works, Charles F., 215 N. Morgan St.
Perrin & Co., William R., Old Colony Bldg.
N. J., Aldena
Watson-Stillman Co., The
N. J., Newark
Burroughs Co., Charles, 141-149 Commerce St.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Syracuse
Boomer & Hoschert Press Co.
Ohio, Alliance
Alliance Machine Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
Pa., Philadelphia
Southwark Foundry & Machine Co.
Pa., Pittsburgh
United Engineering & Foundry Co., Farmer's Bank Bldg.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Acetanilid Plants

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus, Walter E. Co., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Engineering Co., Erie County Bank Bldg.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.
Westinghouse, Church, Kerr & Co., 37 Wall St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acetate of Lime Plants (*see Calcium Acetate Plants*)

Acetone Plants

N. Y., Buffalo
Zaremba Co., D. R., Morgan Bldg.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.
Scotland, Glasgow
Blair, Campbell & McLean, Ltd., Woodville St., Govan

Acetylene Apparatus

Md., Baltimore
*Milburn Co., Alexander, 1420-1426 W. Baltimore St.
Ind., Indianapolis
Presto-O-Lite Co., Inc.
N. Y., New York
Air Reduction Sales Co., 120 Broadway

Acetylene Burners (*see Burners, Gas*)

Acid, Acetic, Plants

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Little Co., Inc., Arthur D., 93 Broad St.
Lummus Co., Walter E., 173 Milk St.

Acid, Acetic, Plants—*cont.*
Mass., Fall River
Scott, Ernest & Co.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.
Westinghouse, Church, Kerr & Co., 37 Wall St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Scotland, Glasgow
Blair, Campbell & McLean, Ltd., Woodville St.

Acid Apparatus (*see specific headings*)

Acid, Benzoic, Plants
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E.,173 Milk St.

Acid, Carbolic, Apparatus (*see Phenol Apparatus and Plants*)

Acid, Citric Plants
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
N. Y., Buffalo
Devine Co., J. O.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.

Acid Condensers
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.

Acid Distillation Plants (*see Distilling Apparatus*)

Acid Distillation Sets
Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernst, P. O. Box 259
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Sanborn Evaporator Co., 50 Broad St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Ohio, Akron
U. S. Stoneware Co.
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.

Acid Eggs
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. J., Burlington
United States Cast Iron, Pipe & Foundry Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P.
N. Y., New York City
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Van Emden Co., H., 145 W. 45th St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, Elyria
Elyria Enameled Product Co.
Pa., Pittsburgh
Rosedale Foundry & Machine Co., Columbus and Preble Aves.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acid, Fatty, Plants
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acid, Hydrochloric, Plants (*see Acid, Muriatic, Plants*)

Acid, Lactic, Plants
Md., Baltimore
Bartlett-Hayward Co.
Mass., Fall River
Scott, Ernest & Co.

Acid, Metanilic, Plants
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott, Ernest & Co.

Acid, Mono Sulphanic, Plants
N. Y., Buffalo
Devine Co., J. P.

Acid Masks

N. Y., New York City
Multi-Metal Separating Screen Co., 68 E. 131st St.

Acid, Muriatic, Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., New York City
General Ceramics Co., 50 Church St.
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acid, Nitric, Plants

England, Widnes
Widnes Foundry Co., Ltd., The
Ga., Atlanta
Pratt Engineering & Machine Co.
Westinghouse, Church, Kerr & Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Little Co., Inc., Arthur D., 93 Broad St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott, Ernest & Co.
N. Y., Buffalo
Buffalo Engineering Co., Erie County Bank Bldg.
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Coatesville
Coatesville Boiler Works
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acid, Phosphoric, Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott, Ernest & Co.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.
N. C., Charlotte
Chemical Construction Co.
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.

Acid, Picric, Plants

England, Widnes
Widnes Foundry Co., Ltd., The
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott, Ernest & Co.
Ohio, Akron
U. S. Stoneware Co.

Acid Plants (*see specific headings*)

Acid Proof Cement (*see Cement, Acid Proof*)

Acid Proof Stoneware Girders (*see Girders, Acid Proof Stoneware*)

Acid, Pyrogallic, Plants

N. Y., Buffalo
Devine Co., J. P.

Acid Recovery Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott, Ernest & Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.

Acid, Salicylic, Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Foundation Co., The, Woolworth Bldg.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acid, Sodium Sulphate, Plants

N. Y., Buffalo
Devine Co., J. P.

Acid, Stearic, Apparatus

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acid, Sulphanilic, Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acid, Sulphuric, Plants

Ga., Atlanta
Pratt Engineering & Machine Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott, Ernest & Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Coatesville
Coatesville Boiler Works
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Acid, Sulphuric, Concentration Plants

N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.

Acid Wringers

N. Y., Troy
Tolhurst Machine Works

Acidometers

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 33d St. and 3d Ave.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.

Acidulators

Del., Wilmington
Walker & Elliott Inc.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott, Ernest & Co.

Aerators

Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie St.
N. Y., Cortland
Champion Milk Cooler Co.
N. Y., Rochester
General Filtration Co., Cutler Bldg.
Vt., Bellows Falls
Vermont Farm Mach. Co.

Agatex

Mich., Detroit
Trus-Con Laboratories, Caniff Road and G. T. R. R.

Agitators (*see specific headings*)

Agitators, Benzol

N. J., Burlington
U. S. Cast Iron, Pipe & Foundry Co.

Agitators, Chemical

Colo., Denver
Colorado Iron Works Co.
Dorr Company, Cooper Bldg.
Ill., Batavia
Sperry & Co., D. R.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Detroit
Detroit Heating & Lighting Co.
Mich., Saginaw
Werner & Pfleiderer, Inc.
Wickes Boiler Co.
N. J., Carteret
Wheeler Condenser & Evaporator Co.
N. J., Burlington
U. S. Cast Iron, Pipe & Foundry Co.
N. J., Newark
Acid Proof Iron Products Co., Inc.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Aves.
N. Y., Buffalo
Devine Co., J. P.
Farrar & Trefts, 47 Perry St.
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
Dorr Co., The, 17 Battery Pl.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Stevens Brothers, 149 Broadway
Van Emden Co., H., 145 W. 45th St.
Jacoby, Henry E., 95 Liberty St.
N. Y., Rochester
General Filtration Co., Inc.
Pfaudler Co.

Agitators, Chemical—*cont.*

Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
Ohio, Cleveland
Cleveland Brass Mfg. Co., The
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Ohio, Elyria
Elyria Enameled Products Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Agitators, Clay

Mich., Saginaw
Werner & Pfleiderer, Inc.
N. J., Trenton
Crossley Machine Co., Bell and Monmouth Sts.
Ohio, Alliance
Reeves Brothers Co., 338 Rush St.

Agitators, Drug

Ind., Ft. Wayne
Bowser & Co., S. F.
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Buffalo
Sowers Mfg. Co., 1299 Niagara St.

Agitators, Glass Enameled

Ohio, Elyria
Elyria Enameled Products Co.

Agitators, for Liquids

Ind., Ft. Wayne
Bowser & Co., S. F.
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., New York City
General Ceramics Co., 50 Church St.
N. Y., Rochester
Pfaudler Co., The

Agitators, Oil Refining

Ohio, Niles
Standard Boiler & Plate Iron Co.
Pa., Warren
Warren City Tank & Boiler Works

Agitators, Paint

Ind., Ft. Wayne
Bowser & Co., S. F.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Buffalo
Sowers Mfg. Co.
Ohio, Cleveland
Fanner Mfg. Co., W. 25th, west of Brooklyn Bridge
Ohio, East Liverpool
Patterson Foundry & Machine Co.

Agitators, Paper Makers

Ky., Louisville
Caldwell Co., W. E., Brook and D Sts.
Mich., Saginaw
Werner & Pfleiderer, Inc.
Ohio, Akron
Biggs Boiler Works Co., Kent St.
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.

Agitators, Spiral

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Air Compressors

Mich., Battle Creek
American Steam Pump Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Air Compressors, Pneumatic

Ill., Chicago
Chicago Pneumatic Tool Co., 343 S. Dearborn Ave.

Air Conditioning Apparatus

Mich., Detroit
American Blower Co.
N. J., Camden
Webster & Co., Warren
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
Carrier Engineering Corporation, 39 Cortland St.
Dicks Slosson Co., Inc., 302 Broadway
Eimer & Amend, 205-211 3d Ave.
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Air Filtering Apparatus

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Air Moistening Apparatus

Mass., Lowell
Turner Mfg. Co., J. S.
Mich., Detroit
American Blower Co., 1400 Russell Ave.
N. Y., New York City
Green Fuel Economizer Co., 90 West St.
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Air Purifying Apparatus

Mich., Detroit
American Blower Co.
N. J., Camden
Webster & Co., Warren
N. Y., Buffalo
Buffalo Forge Co.
N. Y., New York City
Dicks, Slosson Co., Inc., 302 Broadway
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Air Spray Apparatus

N. Y., Syracuse
Engle Mfg. Co.

Air Washing Apparatus

Mass., Boston
Spray Engineering Co., 93 Federal St.
Mich., Detroit
American Blower Co.
N. Y., Buffalo
Carrier Air Conditioning Co., 490 Broadway
N. Y., New York City
American Spray Co., 26 Cortlandt St.
Carrier Engineering Corp., 39 Cortlandt St.
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.
N. J., Camden
Webster & Co., Warren
N. J., East Orange
New York Blower Co.

Air-Separators, Vacuum

Ill., Chicago
Raymond Bros. Impact Pulverizer Co., 1327 N. Branch St.

Alcohol, Ethyl, Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. Y., New York City
Koven & Bro., L. O., 50 Church St.
Roos, Son, August, 429 E. 91st St.
Pa., Philadelphia
Oat & Sons, Joseph, 230 Quarry St.
Ott Co., George F., 209 Buttonwood St.

Alcohol, Methyl, Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. Y., New York City
Koven & Bro., L. O., 50 Church St.
Roos, Son, August, 429 E. 91st St.
Pa., Philadelphia
Oat & Sons, Joseph, 230 Quarry St.
Ott Co., George F., 213 Buttonwood St.

Alcohol Recovery Plants

Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Devine Co., J. P.

Alizarine Plants

N. Y., Buffalo
Devine Co., J. P.

Alizarine Color Plants

N. Y., Buffalo
Devine Co., J. P.

Alkalimeters

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Alkali Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.
Pa., South Bethlehem
Bethlehem Steel Co.

Alternators, Turbo

N. J., Trenton
De Laval Steam Turbine Co.

Aluminum Mill Machinery

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. Y., New York
Roos' Son, August, 429 E. 91st St.
Pa., Pittsburgh
Garrison Foundry Co., 901 Bingham St.

Aluminum Scoops

N. Y., Fulton
Fulton Aluminum Works
N. Y., New York City
Aluminum Goods Mfg. Co., 30 Church St.
Wis., Manitowoc
Manitowoc Aluminum Co.

Alundum

Mass., Worcester
Norton Co., New Bond St.

Amalgamating Plants

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Amalgamators

Cal., Los Angeles
Lane Mill & Machinery Co., 106 W. 3d St.
Cal., San Francisco
Senn Concentrator Co., 607 First National Bank Bldg.
Col., Denver
Morse Bros. Machinery & Supply Co., 1732 Wazee St.
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Brooklyn
Houchin-Aiken Co., 113 53d St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Ammeters

Conn., Waterbury
Bristol Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
Weston Electrical Instrument Co., Waverly Park
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Pignolet, Louis M., 78 Cortlandt St.
Roller-Smith Co., 233 Broadway
N. Y., Schenectady
General Electric Co.
Pa., Philadelphia
Biddle, James G., 1211-13 Arch St.
Brown Instrument Co., Wayne and Windrum Sts.

Ammonia Condensers

Ky., Louisville
Vogt Machine Co., Henry
N. Y., New York City
De La Vergne Machine Co., 1123 E. 138th St.
Pa., Waynesboro
Frick Co.
Wis., Milawukee
Vilter Mfg. Co., 824 Clinton St.

Ammonia Plants

Ga., Atlanta
Pratt Engineering & Machine Co.
Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. J., Carteret
Wheeler Condenser & Engineering Co.
Ohio, Cleveland
Gas Machinery Co., 1900 Euclid Ave.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Pittsburgh
Koppers Co., H., Union Ave.

Ammonium Sulphate Plants

Ga., Atlanta
Pratt Engineering & Machine Co.
Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
Md., Baltimore
Bartlett-Hayward Co., Scott and McHenry Sts.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. J., Carteret
Wheeler Condenser & Engineering Co.
Pa., Pittsburgh
Koppers Co., H., Union Ave.

Ampoules

Mich., Detroit
Parke, Davis & Co.

Ampoules, Ammonia

Ind., Indianapolis
Lilly & Co., Eli, 224 E. McCarthy St.

Ampoules, Sterile Solutions in

Mich., Kalamazoo
Upjohn Co.

Amyl Acetate Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest

Anemometers

Cal., Los Angeles
Braun Corp., 363 New High St.
N. J., Hoboken
Keuffel & Esser Co.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.

Anemometers—*cont.*

N. Y., Rochester
Taylor Instrument Co.
N. Y., Troy
Gurley, W. & L. E.

Aneroids

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Aniline Apparatus

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Farrar & Trefts, Inc., 47 Perry St.
N. Y., New York City
Bethlehem Foundry & Machine Co., 149 Broadway
Stevens Brothers, 149 Broadway

Aniline Oil Plants

N. Y., Buffalo
Devine Co., J. P.

Aniline Plants (*see Aniline Apparatus*)

Aniline Salt Plants

N. Y., Buffalo
Devine Co., J. P.

Annealing Machines, Rotary, with Sealed Retort

N. Y., New York City
American Gas Furnace Co., 24 John St.

Anodes (*Classified lists follow*)

Anodes, All Metals

Conn., Seymour
Seymour Mfg. Co.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Daigger & Co., A., 50-56 W. Kinzie St.
N. J., Newark
Hanson & Van Winkle Co.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
General Platers Supply Co., Inc.
N. Y., Niagara Falls
Acheson Graphite Co.
International Acheson Graphite Co.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Anodes, Antimony

Ill., Chicago
Illinois Smelting & Refining Co., 410 N. Peoria St.

Anodes, Brass

Conn., Ansonia
American Brass Co.
Conn., Seymour
Seymour Mfg. Co.
Conn., Waterbury
Apothecaries Hall Co.
Scoville Mfg. Co.
Ill., Chicago
Bennett-O'Connell Co., 3600 S. Morgan St.
Mich., Detroit
Detroit Copper & Brass Rolling Mills, 99 Clark Ave.
Michigan Copper & Brass Co., 611 W. Jefferson Ave.
N. J., Matewan
Munning-Loeb Co.
N. J., Newark
Hanson & Van Winkle Co.
N. Y., Brooklyn
Wiarda & Co., John C., 259 Greene St.
N. Y., Buffalo
Buffalo Copper & Brass Rolling Mill, 446 Military Road
N. Y., New York City
General Platers Supply Co., Inc., 58 Wall St.
Hungerford Brass & Copper Co., U. T., 84 Lafayette Ave.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Anodes, Cobalt

N. Y., Brooklyn
Wiarda & Co., John C., 259 Greene St.

Anodes, Copper

Conn., Ansonia
American Brass Co.
Conn., Bridgeport
Bridgeport Brass Co.
Conn., Seymour
Seymour Mfg. Co.
New Haven Copper Co.
Conn., Waterbury
American Brass Co.
Apothecaries Hall Co.
Scoville Mfg. Co.
Ill., Chicago
Bennett-O'Connell Co., 3600 S. Morgan St.
Illinois Smelting & Refining Co., 410 N. Peoria St.
Md., Baltimore
Baltimore Copper Smelting & Rolling Co., 4th Ave. and 6th St.

Anodes, Copper—*cont.*

Mich., Detroit
Detroit Copper & Brass Rolling Mills, 99 Clark Ave.
Michigan Copper & Brass Co., 611 W. Jefferson Ave.
N. J., Matawan
Munning-Loeb Co.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., Brooklyn
Wiarda & Co., John C., 259 Greene St.
N. Y., Buffalo
Buffalo Copper & Brass Rolling Mill, 446 Military Road
N. Y., New York City
General Platers Supply Co., Inc., 58 Wall St.
Hungerford Brass & Copper Co., U. T., 84 Lafayette Ave.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Anodes, Gold

Conn., Hartford
Ney & Co., J. M.
N. J., Matawan
Munning-Loeb Co.
N. J., Newark
Baker & Co., Inc.
Hanson & Van Winkle Co.
N. Y., Buffalo
Hoover & Strong, 119 W. Tupper Ave.
N. Y., New York City
General Platers Supply Co., Inc., 58 Wall St.
Platt Co., Charles S.
N. Y., Niagara Falls
Acheson Graphite Co.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Anodes, Iridium

V. Y., Buffalo
Hoover & Strong, 119 W. Tupper St.

Anodes, Nickel

Conn., Seymour
Seymour Mfg. Co.
Conn., Waterbury
Apothecaries Hall Co.
Ill., Chicago
Bennett-O'Connell Co., 3600 S. Morgan St.
N. J., Matawan
Munning-Loeb Co.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., Brooklyn
Wiarda & Co., John C., 259 Greene St.
N. Y., New York City
General Platers Supply Co., Inc., 58 Wall St.
Imex Corp., 25 Beaver St.
Roessler & Hasslacher Chemical Co., 100 William St.
N. Y., Niagara Falls
Acheson Graphite Co.
Ohio, Cleveland
Harshaw, Fuller & Goodwin Co.

Anodes, Platinum

Conn., Hartford
Ney Co., J. N.
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., 54 Austin St.
N. Y., Buffalo
Hoover & Strong, 119 Tupper St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Anodes, Silver

Conn., Hartford
Ney & Co., J. N.
N. J., Matawan
Munning-Loeb Co.
N. J., Newark
Hanson & Van Winkle Co.
N. Y., Buffalo
Hoover & Strong, 119 W. Tupper St.
N. Y., New York City
General Platers Supply Co., Inc., 58 Wall St.
Platt Co., Charles C.
N. Y., Niagara Falls
Acheson Graphite Co.

Anodes, Zinc

Conn., Waterbury
Apothecaries Hall Co.
Ill., Chicago
Great Western Smelting & Refining Co.
Illinois Smelting & Refining Co., 410 N. Peoria St.
Ill., Peru
Illinois Zinc Co.
Mich., Detroit
Michigan Smelting & Refining Co.
N. Y., Brooklyn
Wiarda & Co., John C., 259 Greene St.
N. Y., New York City
General Platers Supply Co., Inc., 58 Wall St.
Nassau Smelting & Refining Works
N. Y., Niagara Falls
Acheson Graphite Co.

Anodes, Zinc—*cont.*

Ohio, Cleveland
Grasselli Chemical Co.
Harshaw, Fuller & Goodwin Co., Electric Bldg.

Anvils

N. Y., Brooklyn
Eimer & Amend, 3d Ave., 38th to 39th Sts.
Hay-Budden Mfg. Co., 254 N. Henry St.

Apparatus (*Technical and Scientific.*)
(*See also Specific Headings*)

Cal., Berkeley
*University Apparatus Co., 2229 McGee Ave.
Cal., Los Angeles
*Braun Corporation, The, 363 New High St.
Cal., San Francisco
*Claire, Justenian Co., 573 Market St.
*Smith, C. W., 16 Washington St.
Cal., San Francisco
Braun-Knecht-Heinmann Co., 576 Mission St.
Colo., Denver
Denver Fire Clay Co., 1742 Champa St.
Ill., Chicago
Central Scientific Co., 412 Orleans St.
*Central Scientific Co., 460 E. Ohio St.
Schaar & Co., 1025 S. State St.
Chicago Surgical & Electrical Co., 314 W. Superior St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Driesen Co., Wm. E., 186 S. La Salle Ave.
*Gaertner & Co., Wm., 5345 Lake Park Ave.
Humboldt Mfg. Co., 2014 Nebraska Ave.
Kimble-Durand Glass Co., 402 W. Randolph St.
*Sargent & Co., E. H., 125 W. Lake St.
*Schaar & Co., 1025 S. State St.
Stoelting Co., C. H., 121 N. Green St.
Olmstead Scientific Co., W. A.
Ill., East Moline
Standard Calorimeter Co.
La., New Orleans
New Orleans Copper Works
Mass., Boston
*Gleeson, Thos. W., 106 Sudbury St.
*Knott Apparatus Co., L. E., 16 Harcourt St.
Mass., Cambridge
*International Instrument Co.
Mich., Ann Arbor
*Eberbach & Son Co.
Mich., Detroit
*Precision Instrument Co.
Mich., Lansing
*Apparatus & Specialty Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Mo., St. Louis
*Heil Chemical Co., Henry, 216 S. 4th St.
N. J., Hampton
Standard Water Systems Co.
N. J., Newark
*Tobin & Co., James L., 279 Oraton St.
N. Y., Brooklyn
Arwe Mfg. Co., Carl H., 1348 De Kalb Ave.
Brooklyn Glass Co., 207 Hale Ave.
Graham Chemical Pottery Co., 986 Metropolitan Ave.
Silver & Co., 304 Hewes St.
N. Y., Buffalo
Buffalo Dental Mfg. Co., 587 Main St.
Ray Mfg. Co., Geo. A., 1495 Niagara St.
Devine Co., J. P.
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
Berge, J. & H., 95 John St.
Bramhall-Deane Co., 261 W. 36th St.
Carboy Inclinator Co., 1269 Broadway
Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
Greiner Co., Emil, 55 Fulton St.
Kidder Mfg. Co., Jerome, 820 Broadway
Kny-Scheerer Co., 404 W. 27th St.
Kohlbusch, Herman, 170 Broadway
*Lenz Apparatus Co., 18 E. 16th St.
Louis Co., O. T., 70 5th Ave.
*Machlett & Son, E., 153 E. 84th St.
Mica Mfg. Co., 152 Chambers St.
Palo Co., 90-94 Maiden Lane
Stitzel & Buecher, 155 W. 29th St.
*Standard Scientific Co., 147 Waverly Pl.
N. Y., Rochester
*Castle Co., Wilmot
Ohio, Cleveland
Ohio Chemical & Mfg. Co., 1199 Marquette at L. S. and M. S. Railway
Ohio, Columbus
*Laboratory Supply Co., 41 E. Chestnut St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Erie
American Sterilizer Co.
Erie City Mfg. Co.
Pa., Philadelphia
Bernstein Mfg. Co., 3d and Allegheny Ave.
Caloris Co., 2110 Allegheny Ave.

Apparatus—*cont.*

Pa., Philadelphia—cont.
Feidt & Co., Geo. D., 230 S. 7th St.
*Thomas Co., Arthur H., W. Washington Square
Whitall-Tatum Co., 410 Race St.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Apparatus, Battery Charging

Wis., Milwaukee
Cutler-Hammer Mfg. Co., 12th St. and St. Paul Avenue

Apparatus, Chemical House

(*see Specific Headings*)

Apparatus, Constant Temperature

Ill., Chicago
Chicago Surgical and Electrical Co., 314 W. Superior St.

Apparatus, Dissolving

Mich.. Saginaw
Werner & Pfleidere Co. 1260 N. Niagara St.

Apparatus, Electric Protective

Mass., South Boston
Condit Electrical Mfg. Co.

Apparatus, Electrolytic Oxygen and Hydrogen

N. Y., New York City
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.

Apparatus, Electric Switchboard

Mass. South Boston
Condit Electrical Mfg. Co.

Apparatus, Kjeldahl

Mass.. Brighton
International Equipment Co., 352 Western Avenue

Applicators, Wooden

N. Y., New York City
Estes & Sons, E. B., 362 Fifth Ave.

Aprons, Laboratory

Ill., Quincy
Cabinet Mfg. Co., 323-325 Main St.
N. Y., New York City
Eimer & Amend, 3d Ave., 38th to 39th Sts.
Watters Laboratories, Cons., 55 5th Ave.
Ohio, Akron
Goodrich Co., B. F.

Aprons, Rubber

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Armlets, Acid

Canada, Montreal
Canadian Consolidated Rubber Co., Ltd., 201 Inspector St.

Arsenic Plants

Ohio, East Akron
Knight, Maurice A.

Artificial Silk Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Asbestos

N. Y., New York City
Johns-Manville Co.
Ohio, Lockland
Philip Carey Mfg. Co.
Pa., Ambler
Keasby & Mattison

Asbestos Compounding Machines

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Asbestos Suits

N. Y., Elmira
American-La France Fire Engine Co., Inc.
N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.

Ash Handling Systems

Ill., Chicago
Link-Belt Co.
Ind., East Chicago
Green Engineering Co.
Ind., Elkhart
Griffin Engineering & Construction Co.
Mo., St. Louis
Girtanner-Daviess Eng. & Contg. Co., 504 Chemical Bldg.

Ash Handling Systems—*cont.*

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Ash Hoppers

N. Y., New York City
Dover Boiler Works, 50 Church St.

Asphalt Testing Apparatus

Ill., Chicago
Humboldt Mfg. Co., 2014 Nebraska Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Assayers' Supplies

Cal., Los Angeles
Braun Corp., The
Wash., Spokane
Fassett Co., C. M.
N. Y., New York City
Mine & Smelter Supply Co., 42 Broadway
Palo Co., 90 Maiden Lane

Atomizers

N. Y., Long Island City
Anthony Co., The, 138 West Ave.
Industrial Filtration Corp., 115 Broadway
Pa., Philadelphia
Bokel & Co., Wm., 518 Vine St.
Whitall-Tatum Co., 410 Race St.

Atomizers, Laboratory

Atomizers, Steam

Mass., Boston
Codman & Shurtleff
N. Y., New York City
Kny, Scherer & Co., 404 W. 27th St.
N. Y., Rochester
Rochester Spray Pump Co., 179 Broadway
Ohio, Ashland
Myers & Brother, F. E., 900 Orange St.

Autoclaves

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Md., Baltimore
Bartlett-Hayward Co.
Codd Co., E. J., 700 S. Caroline St.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Burkhard, Inc., Thomas
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P.
Sowers Mfg. Co., 1300 Niagara St.
Zaremba Co., Morgan Bldg.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Stevens Brothers, 149 Broadway
N. Y., Rochester
Pfaudler Co., The
Wilmot Castle Co., 800 St. Paul St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., Philadelphia
Stokes Machine Co., F. H., 17th and Cambria Sts.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Autoclaves, Glass Enameled

N. Y., Rochester
Pfaudler Co., The
Ohio, Elyria
Elyria Enameled Products Co.

Autoclaves, Welded Steel

N. Y., New York City
Kellogg Co., The M. W., 90 West St.

Bacteriological Apparatus

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Palo Co., 90 Maiden Lane
Watters Laboratories, Cons., 55 5th Ave.
N. Y., Rochester
Bausch & Lomb Optical Co.

Bacteriological Apparatus—*cont.*

Ohio, Columbus
*Laboratory Supply Co., 41 E. Chestnut St.
Pa., Philadelphia
Steele Glass Co., 622 Locust St.
Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Bag Filling Machines

Ill., Chicago
Link-Belt Co.
Mass., Fitchburg
Brown Bag Filling Machine Co.
Ohio, Columbus
Jeffrey Mfg. C., 904 N. 4th St.

Bags, Filter

Ga., Macon
Bibb Mfg. Co.
Mo., St. Louis
Bemis Bros. Bag Co., 600 S. 4th St.
Chase Bag Co., 8 N. Main St.
N. Y., New York City
Lane & Co., J. H., 334 4th Ave.

Bag Houses, Mechanical

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Baking Machinery

Mich., Detroit
Detroit Heating & Lighting Co., 335 Wight St.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 47 Winchester Ave.

Baking Ware

N. J., Millville
International Glass Co.
N. Y., Corning
Corning Glass Works

Balance Rests

Ohio, Cambridge
Cambridge Glass Co.

Balances (*Classified lists follow*)

Balances

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Ainsworth & Sons, Wm., 2151 Lawrence St.
Thompson Balance Co., 808 20th St.
Ill., Chicago
Daigger & Co., A., 52-56 W. Kinzie St.
Ill., Chicago
*Schaar & Co., 1025 S. State St.
N. Y., New York City
*Berge, J. & H., 95 John St.
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Square
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.
Greiner Co., Emil, 55 Fulton St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
*Scientific Equipment Co., 70 Fifth Ave.
*Standard Scientific Co., 147 Waverly Pl.
Torsion Balance Co., 92 Reade St.
N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Carbondale
Griebel Instrument Co.

Balances, Analytical

Cal., San Francisco
*Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Ainsworth & Sons, Wm., 2151 Lawrence St.
Denver Balance & Scale Co., 3000 Larimer St.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
*Sargent & Co., E. H., 125 W. Lake St.
Welch Mfg. Co., W. M., 1516 Orleans St.
Mich., Ann Arbor
*Eberbach & Son Co.
Mo., St. Louis
*Heil Chemical & Mfg. Co., 216 S. 4th St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Becker, Inc., Christian, 92 Reade St.
N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Square

Balances, Assay

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Ainsworth & Sons, Wm., 2151 Lawrence St.
Denver Balance & Scale Co.
Thompson Balance Co., 808 20th St.
N. Y., New York City
Eimer & Amend, 205 3d Ave.
Fairbanks Co., 416 Broome St.
Pa., Philadelphia
Queen-Gray Co., 518 Chestnut St.
*Thomas Co., Arthur H., 238 W. Washington Square
Troemner, Henry, 911 Arch St.
Utah, Salt Lake City
Keller Mfg. Co., G. P.

Balances, Precision (*see Balances, Analytical*)

Balances, Spring

N. Y., New York City
Chatillon & Sons, John, 85-93 Cliff St.

Balls

N. Y., New York City
Abbe Engineering Co., 220 Broadway
Hardinge Conical Mill Co., 120 Broadway
Worthington Pump & Machinery Corp., 113 Broadway

Balls, Brass

N. Y., New York City
Boker & Co., H., Inc.
N. Y., Rochester
Auburn Ball Bearing Co., 22 Elizabeth St.
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverly Sts.
Powell Co., Wm., 2521 Spring Grove Ave.

Balls, Bronze

N. Y., Buffalo
Excelsior Steel Ball Co.
N. Y., New York City
Boker & Co., Wm., Inc., Broadway and Duane Sts.
N. Y., Rochester
Auburn Ball Bearing Co., 22 Elizabeth St.

Balls, Copper

Conn., Hartford
Abbott Ball Co.
N. Y., Brooklyn
Johnson Co., J. D., 51 Boerum Pl.
N. Y., New York City
Boker & Co., Inc., Wm., Broadway and Duane Sts.

Balls, Steel

Conn., Hartford
Abbott Ball Co., 1044 New Britain Ave.
N. Y., Buffalo
Excelsior Steel Ball Co.
N. Y., Rochester
Auburn Ball Bearing Co., 22 Elizabeth St.

Balls, Valve

N. Y., Rochester
Auburn Ball Bearing Co., 22 Elizabeth St.
Ohio, Akron
Goodrich Co., B. F.

Balls, Stoneware

Ohio, East Akron
Knight, Maurice A.
N. Y., New York City
General Ceramics Co., 50 Church St.

Barium Salts Plants

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.

Barometers

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Mass., Boston
*Lloyd Co., A. J., 315 Washington St.
N. J., Hoboken
Keuffel & Esser Co.
N. J., Rutherford
Becton, Dickinson Co.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
N. Y., Rochester
Taylor Instrument Cos.
N. Y., Watertown
Watertown Thermometer Co.
Pa., Philadelphia
*Hand & Sons Co., John E., 224 Walnut St.
Philadelphia Thermometer Co., 9th and Arch Sts.
Queen-Gray Co., 618 Chestnut St.
Williams-Brown & Earle, 918 Chestnut St.
Pa., Pittsburgh
*Elliott Co., B. K., 130 6th St.

Barometers, Mercurial

N. Y., Brooklyn
Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.

Barrel Handling Machinery

Ill., Chicago
Link-Belt Co.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Barrels, Chemical

Pa., Oil City
Pennsylvania Cooperage Co.

Barrels, Chlorinating

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Barrels, Cyanide

Mich., Bay City
MacKinnon Boiler & Machine Co.
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., 21 1st Ave.
Wis., Cudahy
Power & Mining Machinery Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Barrels, Lead

N. Y., Brooklyn
Meurer Steel Barrel Co., 567 Flushing Ave.
Ohio, Cincinnati
Cincinnati Cooperage Co., W. 6th St.

Barrels, Metal Bilge, full removable head

Mich., Detroit
Detroit Range Boiler Co.

Barrels, Metal Bilge, galvanized and black

Mich., Detroit
Detroit Range Boiler Co.

Barrels, Metal, Fire

Pa., Carbondale
Carbondale Calcium Co.

Barrels, Shop

Ill., Aurora
Lyon Metallic Mfg. Co.

Barrels, Steel

Cal., Torrance
Pacific Metal Products Co.
Ill., Aurora
Lyon Metallic Mfg. Co.
Ill., Chicago
Wilson & Bennett Mfg. Co., 65th Pl. and 58th Ave.
Ill., Galesburg
Metal Barrel Co.
Mich., Detroit
Detroit Range Boiler Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Meurer Steel Barrel Co.
N. Y., New York City
National Enameling & Stamping Co., 411 Fifth Ave.
Ohio, Columbus
Kilbourne & Jacobs Mfg. Co.
Ohio, Defiance
American Steel Package Co.
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., 221 1st Ave.
Pa., Sharon
Pressed Steel Products Co.

Bars, Aluminum

Pa., Pittsburgh
Aluminum Co. of America, Oliver Bldg.

Bars, Brass

Conn., Waterbury
The American Brass Co.
Conn., Bridgeport
Bridgeport Brass Co.

Bars, Bronze

Conn., Waterbury
The American Brass Co.
Mich., Detroit
Detroit Copper & Brass Rolling Mills 99 Clark Ave.
Pa., Berwyn
American Bronze Co.

Bars, Crow

Conn., Collinsville
Collins Co.
Ill., Chicago
Fairbanks, Morse & Co., 902 S. Wabash Ave.
Mo., St. Louis
Handlan-Buck Mfg. Co., 212 N. 3d Ave.
N. J., Newark
Atha Tool Co., Ft. Chapel St.
Pa., Philadelphia
Logan Iron & Steel Co., Morris Bldg.
Pa., Pittsburgh
Oliver Iron & Steel Co., S. 10th and Muriel Ave.

Bars, Steel

Ill., Chicago
Illinois Steel Co.

Bars, Steel—*cont.*

N. Y., Lackawanna
Lackawanna Steel Co.
Ohio, Youngstown
Youngstown Sheet & Tube Co.
Pa., Philadelphia
Cambria Steel Co.
Pa., Bethlehem
Bethlehem Steel Co.

Basins, Chemists

N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.

Basins, Wash

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Trenton
Maddock Sons Co., Thomas
N. Y., New York City
Central Stamping Co., 174 Fulton St.
Lalance & Grosjean Mfg. Co., 299 Broadway
N. Y., Troy
Troy Stamping Works

Baskets, Burnishing, Acid Proof

N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, East Akron
Knight, Maurice E.

Baskets, Centrifugal

Ohio, Hamilton
Hamilton Copper & Brass Works

Baskets, Dipping

N. J., Harrison
Driver-Harris Wire Co.
N. J., Newark
Newark Wire Cloth Co., 222-228 Verona Ave.
N. Y., New York
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Baskets, Dipping, Stoneware, Acid Proof

N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Work, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Baskets, Pickling

N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice E.

Baths, Sand

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 3d Ave., 18th to 19th Sts.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Square

Baths, Serological

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.

Baths, Steam

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.

Baths, Wassermann

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.

Baths, Water

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
*Schaar & Co., 1025 S. State St.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.

Batteries, Diffusion

Ill., Chicago
Swenson Evaporator Co., Monadnock Bldg.
N. Y., Buffalo
Zaremba Co., Niagara Life Ins. Bldg.

Batteries, Electric

N. J., Orange
Edison, Inc., Thomas A.
N. Y., New York City
Western Electric Co., 463 West St.
Pa., Pittsburgh
Keystone Elec. Telephone Co., 614 Smithfield Ave.

Batteries, Electric, Dry

Ill., Chicago
Fairbanks, Morse & Co., 902 S. Wabash Ave.
Federal Sign System, Lake and Desplaines Aves.
N. Y., New York City
American Ever Ready Co., 304 Hudson Ave.
Johns-Manville Co., H. W., Madison Ave. and 41st St.
Manhattan Electrical Supply Co., 17 Park Pl.
Western Electric Co., 463 West St.
Ohio, Cleveland
National Carbon Co., Madison and Highland Aves.

Batteries, Storage

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Ind., Indianapolis
Presto-O-Lite Co., Inc.
N. J., Orange
Edison Storage Battery Co.
N. Y., Niagara Falls
U. S. Light & Heat Corp.
Pa., Philadelphia
Electric Storage Battery Co., Allegheny Ave. and 19th St.

Beakers, Glass

N. J., Millville
International Glass Co.
N. Y., New York
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Palo Co., 90 Maiden Lane
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co.
Pa., Pittsburgh
Macbeth-Evans Glass Co.

Beakers, Platinum

N. J., Newark
American Platinum Co.
Baker & Co., Inc.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Palo Co., 90 Maiden Lane
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Malvern
Bishop & Co., J., Platinum Works.

Beakers, Porcelain

Colo., Golden
Herold China & Pottery Co.
Ohio, Cambridge
Guernsey Earthenware Co.
Ohio, Zanesville
Ohio Pottery Co.

Beams, Steel

Ill., Chicago
Halsted Co., Jos., 1233 W. Randolph St.
Illinois Steel Co.
Inland Steel Co., 1st National Bank Bldg.
Scully Steel & Iron Co., 24th and Ashland Aves.
Ill., Chicago Heights
Calumet Steel Co.
N. Y., Buffalo
Lackawanna Steel Co.
Pa., Philadelphia
Cambria Steel Co.
Pennsylvania Steel Co.
Pa., Pittsburgh
Carnegie Steel Co.
Jones & Laughlin Steel Co.
United States Steel Corp.
Pa., Pottsville
Eastern Steel Co.
Pa., South Bethlehem
Bethlehem Steel Co.

Bellows, Hand, Laboratory

Ill., Chicago
Daigger & Co., A., 52-56 W. Kinzie St.
Ohio, Cincinnati
Obermayer Co., S., 647 Evans St.
Ohio, Cleveland
Bullock Mfg. Co., T. H., 1577 Columbus Road
Osborn Mfg. Co., 5401 Hamilton Ave. N. E.
Wis., Two Rivers
Hamilton Mfg. Co.

Bells, Call

Conn., East Hampton
Hill Brass Co., N. N.

Bells, Call—*cont.*

Conn., Meriden
Bradley & Hubbard Mfg. Co.
International Silver Co.
N. Y., New York City
Graham & Co., John H., 113 Chambers St.

Belting, Acid Resisting

Canada, Montreal
Canadian Consolidated Rubber Co., Ltd., 201 Inspector St.
Md., Baltimore
Chesapeake Belting Co.
Mass., Boston
Boston Belting Co., 84 Linden Park
N. J., Passaic
Dick, Ltd., R. & J.
N. J., Trenton
Home Rubber Co.
N. Y., New York City
Rahmann & Co., George, 31 Spruce St.
Schieren & Co., Chas. A., Schieren Bldg.
Ohio, Akron
Goodrich Co., B. F.

Belting, Leather

Ill., Chicago
Chicago Belting Co., 113-125 Green St.
Link-Belt Co., W., 39th and Stewart Ave.
Ind., Columbus
Mooney & Sons, W. W.
Mass., Worcester
Graton & Knight Mfg. Co.
Mich., Detroit
Detroit Oak Belting Co., 266 Wight St.
N. Y., New York City
Schieren & Co., Chas. A., Schieren Bldg.
Ohio, Cincinnati
Bradford Belting Co., 201 Walnut St.
Pa., Philadelphia
Rhoades & Sons, J. E., 12 N. Third St.

Belting, Leather, Steamproof

Mass., Worcester
Graton & Knight Mfg. Co.
N. Y., New York City
Central Belting Co., 151 Lafayette St.
Schieren & Co., Chas. A., Schieren Bldg.

Belting, Leather, Waterproof

Mass., Worcester
Graton & Knight Mfg. Co.
N. Y., New York City
Central Belting Co., 151 Lafayette St.
Schieren & Co., Chas. A., Schieren Bldg.

Belting, Link

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Link-Belt Co., W., 39th St. and Stewart Ave.
N. Y., New York City
Schieren Co., Charles A., Schieren Bldg.

Belting, Rubber

Ill., Chicago
Fairbanks, Morse & Co., 900 S. Wabash Ave.
Link-Belt Co., 329 W. 39th St.
Mass., Boston
Boston Woven Hose & Rubber Co., 170 Summer St.
Globe Rubber Works, 45 High St.
N. J., Trenton
Acme Rubber Mfg. Co.
Thermoid Rubber Co., P. O. Box 814
United & Globe Rubber Mfg. Co.
N. Y., Buffalo
Hewitt Rubber Co., 240 Kensington Ave.
N. Y., New York City
Gutta Percha & Rubber Mfg. Co., 127 Duane Ave.
Peerless Rubber Mfg. Co., 31 Warren Ave.
Ohio, Akron
Goodrich Co., B. F.
Goodyear Tire & Rubber Co.
Ohio, Youngstown
Republic Rubber Co.
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.
R. I., Bristol
National India Rubber Co.

Bends, Pipe

N. Y., New York City
Simmons Co., John, 110 Centre St.

Benzaldehyde Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.

Benzine Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest

Benzol Plants

England, Widnes
Widnes Foundry Co., Ltd., The
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Devine Co., J. P.
Scotland, Glasgow
Blair, Campbell & McLean, Ltd., Woodville St., Govan

Benzol Recovery Plants

Pa., Pittsburgh
Koppers Co., H.

Beta-Naphthol Apparatus

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.

Bibbs, Rubber

Conn., Bridgeport
Canfield Rubber Co.

Bibbs, Sink

N. Y., New York City
Elgin Brass Co., 94 John St.
General Ceramics Co., 50 Church St.
Ohio, Cleveland
Central Brass Mfg. Co., 6203 Cedar Ave.
Monarch Brass Co., 4607 Payne Ave.
Pa., Erie
Hays Mfg. Co.
Pa., Macungie
Macungie Brass & Mfg. Co.
Pa., Philadelphia
Savill's Sons, Thos., 1310 Wallace St.

Bib Spigots

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.

Binders

Ill., Chicago
Standard Asphalt & Rubber Co., 137 La Salle Ave., S.
N. Y., New York City
Barrett Mfg. Co., 17 Battery Pl.
Indian Refining Co., 17 Battery Pl.
Standard Oil Co., 26 Broadway
Texas Co., 17 Battery Pl.
Ohio, Cleveland
National Refining Co., Rose Bldg.
Pa., Pittsburgh
Gulf Refining Co., Frick Bldg.

Bins

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Muskegon
Muskegon Boiler Works
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Ohio, Cleveland
Steel Improvement & Forge Co., 5000 Winsor Ave.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Biological Apparatus

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Palo Co., 90 Maiden Lane
N. Y., Rochester
Pfaudler Co., The
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Williams-Brown & Earle, 918 Chestnut St.

Blackboards, Adamant

Ill., Chicago
United States Gypsum Co., 205 W. Monroe St.

Blackboards, Slate

Pa., Bangor
Bangor Slate Mfg. & Supply Co.
Bangor National Slate Co.
Pa., East Bangor
East Bangor Consolidated Slate Co.
Pa., Easton
American Slate Co.
Pa., Slatington
Provident Slate Co.
Genuine Washington Slate Co.
Monarch Black Board & Structural Slate Co.

Blanc Fixe Plants

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.

Blanc Fixe Plants—*cont.*

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.

Blankets, Rubber

Mass., Boston
Boston Belting Co., 84 Linden Park St.
Ohio, Youngstown
Republic Rubber Co.

Bleaching Machinery

Ill., Chicago
Valhalla Co., Valhalla Bldg.
Mass., Holyoke
Holyoke Machine Co.
Mass., Orange
Hewt, Rodvey Machine Co.
N. Y., Amsterdam
Klauder-Weldon Dyeing Mach. Co.
Pa., Philadelphia
Butterworth & Sons Co., H. W., 2415 E. York St.
Philadelphia Drying Machinery Co., 6721 Germantown Ave.
Pa., Pittston
Delahunty Dyeing Machine Co.
R. I., Providence
Textile Finishing Machinery Co., 81 Exchange Pl.

Blenders

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest

Blending Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Blowers, Acid Fumes

Conn., Hartford
Terry Steam Turbine Co.
Ill., Chicago
Ilg. Electric Ventilating Co., 131 Whiting St.
Mass., Boston
Barney Ventilating Fan Works, 62 High St.
Sturtevant Co., B. F., Hyde Park
N. J., Perth Amboy
Didier-March Co.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
General Ceramics Co., 50 Church St.
Ingersoll-Rand Co., 11 Broadway
Machinery Utilities Co., Inc., 501 5th Ave.
Pa., Carbondale
Griebel Instrument Co.
Pa., Titusville
Titusville Iron Co.

Blowers, Blast

Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mich., Kalamazoo
Clarage Fan Co.
N. Y., New York City
American Gas Furnace Co., 24 John St.

Blowers, Centrifugal

Mich., Kalamazoo
Clarage Fan Co.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Schenectady
General Electric Co.

Blowers, Cyclodial

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Blowers, Electric

Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mich., Detroit
American Blower Co., 1400 Russell Ave.
N. J., Elizabethport
Diehl Mfg. Co.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., Schenectady
General Electric Co.

Blowers, Exhaust

R. I., Providence
New England Ventilating & Heating Co., 926 Manton Ave.
Ill., Chicago
Fairbanks-Morse & Co., Wabash Ave. and Eldredge Pl.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mich., Detroit
American Blower Co., 1400 Russell Ave.
N. Y., Schenectady
General Electric Co.

Blowers, Fan

Conn., Hartford
Sterling Blower Co.
Ill., Chicago
Garden City Fan Co., McCormick Bldg.
Power Engineering Co., Railway Exchange
Ind., Indianapolis
Indiana Fan Co., 40 E. South St.
Mass., Boston
Electric Blower Co., 352 Atlantic Ave.
Mass., Orange
Chase Turbine Mfg. Co.
Mich., Detroit
American Blower Co.
Mich., Saginaw
Allington & Curtis Mfg. Co., 402 Holden St.
N. Y., Buffalo
Bicalky Fan Co., 866 Prospect Ave.
Buffalo Forge Co., 490 Broadway
N. Y., New York City
General Ceramics Co., 50 Church St.
Green Fuel Economizer Co., 90 West St.
N. J., East Orange
New York Blower Co.
N. J., Newark
Coe Co., C. T., 10-14 Johnson St.
R. I., Providence
New England Ventilating & Heating Co., 926 Manton Ave.

Blowers, Flotation

Ind., Connersville
Connersville Blower Co.

Blowers, Foot

N. Y., Buffalo
Buffalo Dental Mfg. Co.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Blowers, Hand

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Blowers, Positive

Ohio, Piqua
Piqua Blower Co., 810 S. Downing St.

Blowers, Power

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Blowers, Pressure

Conn., Hartford
Organ Power Co.
Ill., Chicago Heights
Canedy-Otto Mfg. Co.
Ind., Connersville
Roots Co., P. H. & F. M.
Mass., Boston
Nelson Blower & Furnace Co., 11 Elkins St.
Mich., Detroit
American Blower Co.
Mich., Niles
National Standard Co.
Mich., Kalamazoo
Clarage Fan Co.
N. Y., Brooklyn
Crowell Mfg. Co., 298 Taaffe Pl.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Eimer & Amend, 205-211 3d Ave.
Provost Engineering Corp., 220 Broadway
Ohio, Piqua
Piqua Blower Co., 810 S. Downing St.
Pa., Pottstown
Wilbraham-Green Blower Co.

Blowers, Pressure, Positive

N. Y., New York City
Wing Mfg. Co., L. J., 352 W. 13th St.

Blowers, Rotary

Ind., Connersville
Connersville Blower Co.
Roots Co., P. H. & F. M.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mich., Detroit
American Blower Co., 1400 Russell St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Piqua
Piqua Blower Co., 810 S. Downing St.
Pa., York
York Electric & Machine Co., 30-34 N. Penn St.

Blowers, Sand Blast

Ill., Chicago
Mott Sand Blast Co., 26 S. Clinton St.

Blowers, Soot

Ill., Chicago
Simonds & Co., G. L., 230 S. La Salle St.
Ill., Elgin
National Boiler Specialties Co.
Ind., Marion
Marion Machine Foundry & Supply Co.
Mass., Boston
Claflin Co., C. A., 161 High St.
Mich., Detroit
Diamond Power Specialty Co.
Mo., St. Louis
Bayer Steam Soot Blower Co., 2828-2840 La Salle St.

Blowers, Soot—*cont.*

N. Y., Buffalo
General Specialty Co., 291-295 Michigan Ave.
N. Y., Troy
Monarch Steam Blower Co.
Pa., Du Bois
Vulcan Soot Cleaner Co.

Blowers, Steam Jet

N. J., Newark
Coe Co., C. T., 10-14 Johnson St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Pa., Philadelphia
Eynon-Evans Mfg. Co., 15th and Clearfield Sts.
Pa., Pittsburgh
Sauer Power Generating Co., 5115-5119 Rosetta St.
Pa., Scranton
McClave-Brooks Co.

Blowers, Ventilating (*see Blowers, Exhaust*)

Blowers, Volume, Cast Housed

Ind., Indianapolis
Indiana Fan Co., 40 E. South St.

Blowers, Volume

Mich., Kalamazoo
Clarage Fan Co.

Blowpipes, Industrial

Conn., Hartford
Sterling Blower Co.
Ill., Chicago
Garden City Fan Co., 332 S. Michigan Ave.
Metal Specialties Mfg. Co., 736 W. Monroe St.
Oxweld Acetylene Co., 36th and Jasper Pl.
U. S. Blow Pipe & Dust Collecting Co., 2090 Canalport Ave.
La., New Orleans
American Blow Pipe & Ventilating Co., 438 Girod Ave.
National Blow Pipe & Mfg. Co., Ltd.
Mass., Boston
Allen Co., E. H., 41 Beverly St.
Mich., Detroit
American Blower Co., 1400 Russell Ave.
Detroit Heating & Lighting Co.
Detroit Blowpipe Co., 551 Grand River Ave.
Detroit Dental Mfg. Co., 22 Milwaukee Ave.
N. Y., Buffalo
Buffalo Dental Mfg. Co., 587 Main St.
N. Y., New York City
America Gas Furnace Co., 24 John St.
Selas Co., 521 W. 23d St.
Ohio, Cincinnati
Kiechler Mfg. Co., Wade and Denman Sts.
Kirk & Blum, York and Western Sts.
Ohio, Cleveland
Cleveland Blow Pipe & Mfg. Co.
R. I., Providence
New England Ventilating & Heating Co.

Blowpipes, Laboratory

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 50-56 W. Kinzie St.
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
N. J., Elizabeth
Braunsdorf-Mueller Co.
N. J., Newark
Bernz, Otto, 21 Ashland Ave.
Johnson, Wm., 88 Warren St.
N. Y., New York City
Eimer & Amend, 205 3rd Ave.
Lenz Apparatus Co., Inc., 18 E. 16th St.
Ohio, Columbus
Laboratory Supply Co., 236 N. 3rd St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Blowpipes, Oxyacetylene

Mo., St. Louis
Henderson-Willis Welding & Cutting Co., 2305-2309 N. 11th St.

Blowpipe Tips, Platinum

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Blowpipes, Welding

Conn., Bridgeport
Delcampe Welding Co.
Conn., New Haven
Oxy-Carbi Co.
Mass., Boston
Waterhouse Welding Co.

Blue Plants, Milori

N. Y., Buffalo
Devine Co., J. P.

Blue Plants, Soluble

N. Y., Buffalo
Devine Co., J. P.

Blue Printing Machines

Ill., Chicago
Dietzgen Co., Eugene, 166 W. Monroe St.
Pease Co., C. F., 166 W. Adams St.
Mich., Saginaw
Wickes Bros., 512 Water St.
N. Y., New York City
New York Blue Print Paper Co., 58 Reade St.
Ohio, Youngstown
Wagenhorst & Co., J. H., 704 Dollar Bank Bldg.
Pa., Philadelphia
Williams-Brown & Earle, 918 Chestnut St.
Pa., Scranton
Technical Supply Co.

Blue Print Sensitizing Machines

Ill., Chicago
Pease Co., C. F., 166 W. Adams St.

Boards, Indicator Tank

Md., Baltimore
Baltimore Cooperage Co., The

Boilers

Cal., San Francisco
Union Iron Works Co., 260 California Ave.
Colo., Denver
Colorado Fuel & Iron Co., Boston Bldg.
Del., Wilmington
Harlan & Hollingsworth Corp.
Pusey & Jones Co.
Ill., Chicago
Illinois Malleable Iron Co., 1801 Diversey Blvd.
Sullivan Machinery Co., 122 S. Michigan Ave.
Ill., Kewanee
Kewanee Boiler Co.
Ind., Fort Wayne
Brass Foundry & Machinery Co.
Iowa, Burlington
Murray Iron Works Co.
Maine, Bath
Bath Iron Workd, Ltd.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.
Mass., Boston
Atlantic Works, 70 Border St.
Mich., Detroit
Detroit Shipbuilding Co., Orleans St.
Great Lakes Engineering Works, Rivard and Detroit River
Detroit Range Boiler Co., 607-623 24th St.
Mich., Saginaw
Wickes Boiler Co.
N. J., Dover
Dover Boiler Works
N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.
N. Y., Buffalo
Farrar & Trefts, Inc.
N. Y., New York City
Akerlund & Semmes, 17 Battery Pl.
MacGovern & Co., Inc., 114 Liberty St.
Machinery Utilities Co., Inc., 501 5th Ave.
Sanborn Evaporator Co., 87 Wall St.
Ohio, Akron
Biggs Boiler Works Co.
Ohio, Cleveland
American Shipbuilding Co., Washington and Elm Aves.
Bartlett & Snow Co., C. O., 1040 French St.
Ohio, Warren
Warren City Tank & Boiler Works
Pa., Chester
Wetherill & Co., Robert
Pa., Coatesville
Coatesville Boiler Works
Pa., Philadelphia
Lonergan Co., J. E., 211 Race St.
Pa., Pittsburgh
Munroe & Sons Mfg. Corp., 23d and Smallman Sts.
Scaife & Sons Co., Wm. B., 221 1st Ave.
Pa., Reading
Reading Iron Co.
Pa., Titusville
Titusville Iron Co.
Pa., West Chester
Sharples Separator Co.
Pa., Wilkes-Barre
Vulcan Iron Works

Boiler Castings

Mich., Muskegon
Muskegon Boiler Works

Booths, Steel

N. Y., Jamestown
Dahlstrom Metallic Door Co., 10 Blackstone Ave.
N. Y., New York City
American Steel Co., 45 W. 34th St.

Booths, Telephone

N. Y., Jamestown
Dahlstrom Metallic Door Co., 10 Blackstone Ave.
N. Y., New York City
Western Electric Co., 463 West St.

Boring and Drilling Machines, Horizontal

Conn., Bridgeport
Bullard Machine Tool Co.

Boring and Drilling Machines, Horizontal—*cont.*

Mass., Worcester
Reed-Prentice Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Niles-Bement-Pond Co., 111 Broadway
Ohio, Cincinnati
Fosdick Machine Tool Co., Blue Rock and Apple St.
Ohio, Cleveland
Cleveland Machine Tool Works, 3213-3225 Superior Ave.
Lucas Machine Tool Co., E. 99th St. and N. Y. C. R. R.
Pa., Philadelphia
Sellers & Co., Inc., Wm., 1600 Hamilton St.
Wis., Milwaukee
Pawling & Harnischfeger Co.

Boring, Drilling and Milling Machines, Horizontal

Wis., Madison
Gisholt Machine Co.

Boring and Turning Machines, Vertical

Del., Wilmington
Betts Machine Co.
N. H., Lakeport
Bickford & Co., H.
Ohio, Cincinnati
Cincinnati Planer Co., Oakley
King Machine Tool Co.
Pa., Franklin
Colburn Machine Tool Co.
Pa., Philadelphia
Sellers & Co., Inc., Wm., 1600 Hamilton St.
Wis., Madison
Gisholt Machine Co.
Wis., Milwaukee
Pawling & Harnischfeger Co.

Boring, Drilling and Milling Machines

Md., Baltimore
Detrick & Harvey Machine Co.
Mass., Hudson
Universal Boring Machine Co., 30 Tower St.
Ohio, Cleveland
Cleveland Machine Tool Works, 3213-3225 Superior Ave.

Borings, Pulverized Cast Iron

Pa., Pittsburgh
Pittsburgh Crushed Steel Co., Ltd., 61st St. and A. V. Ry.

Bottle-Blowing Machinery

Ind., Anderson
Dice Machine Co.
Ind., Terre Haute
O'Neill Bottle Machine Co.
N. Y., New York City
United Bottle Machinery Co., 90 W. Broadway
Ohio. Toledo
Kent-Owens Machine Co.
Owens Bottle Machine Co.

Bottle Caps

Ohio, Cambridge
Cambridge Glass Co.

Bottle Caps, Paper

N. J., Vineland
Sayford Paper Specialty Co.
N. Y., New York City
Guttman, A., 10 McDougal St.
McKesson & Robbins, Inc., 91 Fulton St.
Weiss Co., The M., 18 Warren Ave.

Bottle Cockers

Ill., Chicago
Redlich Mfg. Co., 637 W. Oak St.

Bottle Filling Machinery

Ill., Chicago
Creamery Package Mfg. Co., 30 La Salle St.
Liquid Carbonic Co.
U. S. Bottlers' Machinery Co., 2511 Park Ave.
Md., Baltimore
Simplex Bottle Filling Machinery Co.
Ohio, Cleveland
Bishop-Babcock-Becker Co.

Bottle Rinsing Machinery

Ill. Chicago
Magnus Sons Co., A., 327 W. Randolph St.
U. S. Bottlers' Machinery Co., 1033 W. Lake St.
Ill., North Chicago
Davis Milk Machinery Co.
N. Y., Buffalo
Rice & Adams Corp.
Ohio, Cleveland
Loew Mfg. Co.

Bottle Sealing Machinery

Ill., Chicago
Phoenix-Hermetic Co., 2444 W. 16th St.
Redlich Mfg. Co., 637 W. Oak St.
Md., Baltimore
Crown Cork & Seal Co.
N. Y., Brooklyn
Phoenix-Hermetic Co., 38th and 14th Ave.

Bottles, Acid

Ohio. Cambridge
Cambridge Glass Co.

Bottles, Acid Dropping

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Bottles, Cork Stoppered

N. J., Millville
Wheaton Co., T. C.

Bottles, Dropping

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Pa., Carbondale
Griebel Instrument Co.

Bottles, Gas

Pa., Carbondale
Griebel Instrument Co.

Bottles, Gas Washing

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Bottles, Glass

Ill., Alton
Illinois Glass Co.
Ill., Chicago
Daigger & Co., A., 52-56 W. Kinzie St.
Ill., Danville
Headley Glass Works
Ind., Indianapolis
Fairmount Glass Works
Md., Baltimore
Carr, Lowrey Glass Co.
N. J., Glassboro
Whitney Glass Works
N. J., Millville
International Glass Co.
Wheaton Co., T. C.
N. J., Williamstown
Williamstown Glass Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Ohio, Newark
Heisey & Co., Inc., A. H.
Ohio, Toledo
Owens Bottle Machine Co.
Pa., Allentown
Allentown Flint Bottle Co.
Pa., Philadelphia
Fox & Sons, Inc., H. C., Schuylkill Ave. and Catherine St.
Maris & Co., J. M.
Whitall-Tatum Co., 410 Race St.
Pa., Pittsburgh
U. S. Glass Co., S., 9th and Bingham Aves.
W. Va., Wheeling
Central Glass Works

Bottles, Glass Stoppered

N. J., Millville
Wheaton Co., T. C.

Bottles, Gramercy, Reagent

N. Y., New York City
Eimer & Amend, 205-211 3d Ave.

Bottles, Infusion

Ohio, Cambridge
Cambridge Glass Co.

Bottles, Mixing

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Bottles, Platinum

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., Murray and Austin St.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Bottles, Prescription

Pa., Philadelphia
Whitall-Tatum & Co., 410 Race St.

Bottles, Reagent

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Bottles, Specific Gravity

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Bottles, Stoneware (*see Stoneware, Chemical*)

Bottles, Weighing

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Bottles, Weighing Pipette

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Bottles, Woulffs

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Bottle Stoppers, Patent

Pa., Philadelphia
Perfection Bottle Stopper Co.
Whitall-Tatum & Co., 410 Race St.

Bottling Machinery

Ohio, Cleveland
Loew Mfg. Co., 9001 Madison Ave., N. W.

Bowls

N. J., Burlington
Stuart & Peterson Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, East Akron
Knight, Maurice A.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Bowls, Evaporating

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

Bowls, Graphite Spelter

N. J., Jersey City
Dixon Crucible Co., Joseph

Bowls, Solution

Ohio, Cambridge
*Cambridge Glass Co.

Boxes, Acid Pump

N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.

Boxes, Annealing and Carbonizing

N. J., Garwood
Garwood Bronze & Iron Works

Boxes, Carbonizing

Ohio, Cleveland
Cleveland Brass Mfg. Co., 4606-4700 Hamilton Ave.

Boxes, Catch

N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.

Boxes, Fibre

Del., Wilmington
American Vulcanized Fibre Co.

Boxes, Fixing

Ohio, Cambridge
*Cambridge Glass Co.

Boxes, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph

Boxes, Heat Treating

Ohio, Cleveland
Cleveland Brass Mfg. Co., 3606-4700 Hamilton Ave.

Boxes, Metal

Ill., Aurora
Lyon Metallic Mfg. Co.
Ohio, Cleveland
Cleveland Wire Spring Co.
Globe Machine & Stamping Co.

Boxes, Microscopic Slide

N. Y., New York City
*Estes & Sons, E. B., 362 5th Ave.

Boxes, Refinery

Pa., Oil City
Reid Gas Engine Co., Joseph

Boxes, Steel

Ill., Aurora
Lyon Metallic Mfg. Co.

Boxes, Steel Shelf

Ill., Aurora
Allsteel Equipment Co.

Boxes, Steel Welded

N. Y., New York City
Cave Welding & Mfg. Co., 32 Liberty St.

Brakes, Magnetic

Ohio, Cleveland
Electric Controller & Mfg. Co., 2698 E. 79th St.

Brass, All Kinds

Conn., Waterbury
American Brass Co.
Scoville Mfg. Co.
Ill., Decatur
Mueller Mfg. Co., H.
Md., Baltimore
Bartlett Hayward Co.
Baltimore Tube Co.
Mich., Detroit
American Lubricator Co.

Brass Work

Pa., Philadelphia
Ott, Geo., F., 209 Buttonwood St.
Wis., Milwaukee
Sommers & Sons Co., Galena and 31st Sts.

Breakers, Electric Heat Control Circuit

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Breakers, Switchboard and Circuit

N. Y., Schenectady
General Electric Co.

Breathing Devices

Ill., Chicago
Life Saving Devices Co., 564 W. Monroe St.

Brick (*Classified lists follow*)

Brick, Acid Proof

Ala., Birmingham
Graves Shale Paving Brick Co.
Mo., St. Louis
Mississippi Glass Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice E.
Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.
Wash., Seattle
Denny-Renton Clay & Coal Co.

Brick, Blast Furnace

Ky., Ashland
Ashland Fire Brick Co.

Brick, Carborundum

N. J., Perth Amboy
Didier-March Co., P. O. Box 327

Brick, Chemical

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
N. C., Charlotte
Chemical Construction Co.

Brick, Chrome

Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.

Brick, Cork

Pa., Pittsburgh
Armstrong Cork & Insulation Co., 122 24th St.

Brick, Duro

Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.

Brick, Enameled

N. Y., New York City
American Enameled Brick & Tile Co., 52 Vanderbilt Ave.

Brick, Fire

Ga., Atlanta
Hood Mifflin Brick Co., B.
Ill., Chicago
Pliable Fire Brick Co., 133 W. Washington St.
Ky., Ashland
Ashland Fire Brick Co.
Mo., St. Louis
Evans & Howard Fire Brick Co., 920 Market St.
Mo., St. Louis
Laclede-Christy Clay Products Co., 1673 Railway Exchange Bldg.
N. J., Perth Amboy
Didier-March Co.
N. Y., New York City
Maurer & Son, Henry, 420 E. 23d St.
N. Y., Rome
Betson Plastic Fire Brick Co.
N. Y., Troy
McLeod & Henry Co.
Ohio, Cincinnati
Taylor Sons Co., Chas.
Ohio, Oak Hill
Pyro Clay Products Co.
Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.
Tenn., Jackson
Jackson Fire Brick Co.

Brick, Fire Clay

N. J., Perth Amboy
Didier-March Co.
Pa., Philadelphia
Lavino & Co., E. J., Bullitt Bldg.

Brick, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph

Brick, Heat Insulating

N. Y., New York City
Celite Products Co., 11 Broadway

Brick, Insulating

N. Y., New York City
Celite Products Co., 11 Broadway
Pa., Pittsburgh
Armstrong Cork & Insulation Co., 122 24th St.

Brick Machinery

Ill., Chicago
Schultz & Son, A. L., 1675 Elston Ave.
N. Y., Peekskill
Naylor Bros.
Ohio, Canton
Bonnot Co.
Ohio, Cleveland
Bartlett & Sons Co., C. O.
Ohio, New London
Arnold-Creager Co.
Pa., Philadelphia
Chambers Bros. Co., 52d and Media Sts.

Brick, Magnesia

Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.

Brick Materials

N. C., Charlotte
Chemical Construction Co.

Brick, Rubbing

N. Y., Niagara Falls
Carborundum Co.

Brick, Silica

Pa., Pittsburgh
Harbison-Walker Refractories Co., Farmers Bank Bldg.

Briquettes, Aluminum (Light Scrap)

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquettes, Anthracite

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquettes, Bituminous Coal

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquettes, Blast Furnace Flue Dust

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquettes, Brass Scrap

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquettes, Cast Iron (Borings)

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquettes, Metal Dross

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquettes, Steel (Chips)

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquettes, Zinc Dust

N. Y., New York City
General Briquetting Co., 25 Broad St.

Briquette Molds, for Asphalt and Cement

N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.

Briquetting Machines

N. Y., New York City
General Briquetting Co., Inc., 41 Broadway

Pa., Allentown
Traylor Engineering & Mfg. Co.

Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Brown, Bismarck, Plants

N. Y., Buffalo
Devine Co., J. P.

Brushes, Acid

Ohio, Cleveland
Osborn Mfg. Co., 5401 Hamilton Ave., N. E.

Brushes, Beaker

N. Y., New York City
Leiner & Co., George S., 1250 Brook Ave.

Brushes, Bottle

N. Y., New York City
Hahn, A. W., 359 Greenwich St.
Leiner & Co., George S., 1250 Brook Ave.

Brushes, Burette

N. Y., New York City
Leiner & Co., George S., 1250 Brook Ave.

Brushes, Graduate

N. Y., New York City
Leiner & Co., George S., 1250 Brook Ave.

Brushes, Pipette

N. Y., New York City
Leiner & Co., George S., 1250 Brook Ave.

Brushes, Test Tube

Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.

N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Leiner & Co., George S., 1250 Brook Ave.

Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co., 410 Race St.

Buckets, Acid

N. Y., New York City
General Ceramics Co., 50 Church St.
Gutta Percha & Rubber Mfg. Co., 127 Duane St.
Ohio, East Akron
Knight, Maurice A.
R. I., Bristol
National India Rubber Mfg. Co.

Buckets, Coal and Ore

Col., Denver
Mine & Smelter Supply Co.
Mass., East Boston
Mead-Morrison Mfg. Co., Prescott and Orleans Sts.
Minn., St. Paul
American Hoist & Derrick Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O., French and Columbus Sts.
Ohio, Columbus
Jeffrey Mfg. Co., 956 N. 4th St.
Wis., Milwaukee
Allis-Chalmers Co.

Buckets, Elevator

Ala., Birmingham
Birmingham Boiler Works
Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Link-Belt Co.
Moore & Lorenz Co., 2144-52 Fulton St.
Skillin & Richards Mfg. Co., 4520 Cortland St.
Weller Mfg. Co., 1820-1856 N. Kostner Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Carbondale
Cross Engineering Co.
Wis., Milwaukee
Chain Belt Co., 734 Park St.

Buckets, Excavating

Ill., Chicago
Andresen-Evans Co., 646 Railway Exchange Bldg.
N. Y., New York City
Hayward Co., 50 Church St.
Ohio, Cleveland
Wellman-Seaver-Morgan Co., 7004 Central Ave.
Pa., Erie
Williams Co., G. H.

Buckets, Grab

Ill., Chicago
Andresen-Evans Co., 646 Railway Exchange Bldg.
Link-Belt Co.
Orton-Steinbrenner Co., 608 S. Dearborn Ave.
Mass., East Boston
Mead Morrison Mfg. Co.
Mich., Detroit
Northern Engineering Works
Minn., Duluth
Clyde Iron Works, 29th Ave., West and Michigan Ave.
Mo., St. Louis
Simmons Hardware Co.
N. Y., New York City
Haiss Mfg. Co., Geo., 141st St. and Rider Ave.
Hayward Co., 50 Church St.
N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.
Pa., Erie
Williams Co., G. H.

Buckets, Hoisting (*see Buckets, Coal and Ore*)

Buckets, Orange Peel

Ill., Chicago
Andresen-Evans Co., 646 Railway Exchange Bldg.
N. Y., New York City
Hayward Co., 50 Church St.

Buckets, Ore (*see Buckets, Coal and Ore*)

Buckets, Self-Dumping

Ill., Chicago
Link-Belt Co., 329 W. 39th St.
Minn., Duluth
Clyde Iron Works, 29th Ave., West and Michigan St.
N. Y., Long Island City
Steubner Iron Works, G. L., Hancock St. and Vernon Ave.
N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.
Ohio, Cleveland
Brown Hoisting Machinery Co., 4403 St. Clair St.
Pa., Koppel
Orenstein-Arthur Koppel Co.

Bulbs, Atomizers

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Bumpers, Rubber

Mass., Boston
Boston Belting Co., 84 Linden Park St.

Bungs, Wooden

Ill., Chicago
Redlich Mfg. Co., 637 W. Oak St.

Burettes (*see Glass, Chemists; see Glass, Chemical*)

Burette Clamps

Ill., Chicago
*Stoelting Co., C. H., 3037 Carroll Ave.

Burette Stands

Pa., Carbondale
Griebel Instrument Co.

Burners (*Classified lists follow*)

Burners, Argand

Mich., Detroit
Precision Instrument Co.

Burners, Assay

Cal., Los Angeles
Calkins Co., 348 N. Main St.
Mo., St. Louis
*Heil Chemical & Mfg. Co., 216 S. 4th St.

Burners, Bunsen

Conn., Stamford
Stamford Gas Stove Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
*Stoelting Co., C. H., 3037 Carroll Ave.
Illinois Malleable Iron Co., 1801 Diversey Blvd.
Iowa, Cedar Rapids
Johnson Gas Appliance Co.
Mass., Boston
*Knott Apparatus Co., L. E., Cambridge "A" Station
Mich., Detroit
Detroit Dental Mfg. Co., 21 Milwaukee Ave.
Detroit Heating & Lighting Co.
N. J., Newark
Newark Brass Works, 20 Lawrence Ave.
N. Y., Buffalo
Buffalo Dental Mfg. Co., 587 Main St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Pa., Erie
Advance Mfg. Co.
Pa., Homestead
Lawson Mfg. Co.
Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Burners, Efficiency Gas Pipe

N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Burners, Gas

Cal., San Francisco
Johnson Co., S. T., 1337 Mission St.
Conn., New Haven
Oven Equipment & Mfg. Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Schaar & Co., 1025 S. State St.
Ill., Rockford
Eclipse Fuel Engineering Co.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Selas Co., 521 W. 23d St.
Tirrill Gas Machine Lighting Co., 103 Park Ave.
N. Y., Syracuse
Syracuse Industrial Gas Co., 206 McCarthy Bldg.
Ohio, Cincinnati
Creaghead Engineering Co., 340-342 Main St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Gwynn Gas Burner & Engineering Co., 713-714 Empire Bldg.
Sauer Power Generating Co., 5115-19 Rosetta St.
*Scientific Materials Co., 711-719 Forbes St.

Burners, Gasoline

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ohio, Canton
Sun Vapor & Street Light Co.

Burners, Incandescent, Gasoline

N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Burners, Laboratory (*see Burners, Bunsen*)

Burners, Oil

Cal., Fresno
Gearhart Oil Burner Co., 1314 Eye St.
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Johnson Co., S. T., 1337 Mission St.
Ill., Chicago
National Supply Co., 416 W. Grand Ave.
Schaar & Co., 1025 S. State St.
Weller Mfg. Co., 1820-1856 N. Kostner Ave.
Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
Mass., Springfield
Gilbert & Barker Mfg. Co.
N. Y., Brooklyn
Hauck Mfg. Co., 140 Livingston St.
N. Y., Long Island City
Anthony Co., 138 West Ave.
N. Y., New York City
Best, Inc., W. N., 11 Broadway
Hammel Oil Burning Equipment Co., 350 Pearl St.
Metals Production Equipment Co., 105 W. 40th St.
Palo Co., 90 Maiden Lane
Pa., Philadelphia
Messer Mfg. Co., 121 N. 7th St.
Monarch Mfg. Works, 3129 Emery St.
Pa., Pittsburgh
Tate, Jones & Co., Inc.

Burners, Powdered Coal

Ill., Chicago
Stroud & Co., E. H., 928-934 Fullerton Ave.
Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.

Bushings, Faced

Conn., Branford
Malleable Iron Fittings Co.
Pa., Pittsburgh
National Tube Co., 1802 Frick Bldg.

Bushings, Malleable Iron

Conn., Branford
Malleable Iron Fittings Co.
Pa., Pittsburgh
National Tube Co., 1802 Frick Bldg.

Bushings, Pipe

Conn., Branford
Malleable Iron Fittings Co.
Pa., Pittsburgh
National Tube Co., 1802 Frick Bldg.

By-Product Machinery

N. Y., Buffalo
Devine Co., J. P.

By-Product Recovery Plants

Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. Y., Buffalo
Zaremba Co., D. R., Morgan Bldg.
Ohio, Cleveland
Gas Machinery Co., 1900 Euclid Ave.

Cabinets, Blue Print

Ill., Aurora
Lyon Metallic Mfg. Co.
N. Y., Rochester
Yawman & Erbe Mfg. Co.
Wis., Two Rivers
Hamilton Mfg. Co.

Cabinets, Chemical

Ind., Indianapolis
Schwartz Sectional System
Mich., Allegan
Oliver & Co.
N. Y., Brooklyn
Lutz Mfg. Co., 162 Albany Ave.
N. Y., New York City
Bogert & Hopper, 162 William St.
Ohio, Dayton
Reynolds & Reynolds Co., The

Cabinets, Laboratory

Ind., Indianapolis
Schwartz Sectional System

Cabinets, Metal

Mass., Framingham
Manufacturing Equipment & Engraving Co.
Mich., Grand Rapids
Terrell's Equipment Co.

Cabinets, Reagents

Ind., Indianapolis
Schwartz Sectional System

Cabinets, Steel (*see also Cabinets, Filing*)

Ill., Aurora
Lyon Metallic Mfg. Co.
N. Y., New York City
Hospital Supply Co., 53 5th Ave.
Pa., Philadelphia
Large-Dail Mfg. Co., 114 N. 13th St.

Cabinets, Steel Storage

Ill., Aurora
Allsteel Equipment Co.

Calciners, Rotary

Ohio, Cleveland
Cummer & Son Co., F. D., 413 The Arcade

Calcium Acetate Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Zaremba Co., D. R., Morgan Bldg.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Calipers, Tubular Micrometer

Wis., Milwaukee
Davis Mfg. Co., 57th Ave. and Mitchell St.

Calorgraphs

Mich., Detroit
Precision Instrument Co.

Calorimeters

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Ellison, Lewis M., 214 W. Kinzie St.
Sargeant Steam Meter Co., 1902 N. California Ave.
Ill., East Moline
Standard Calorimeter Co.
Mass., Boston
Crosby Steam Gauge & Valve Mfg. Co., 38 Central Ave.
American Steam Gauge & Valve Mfg. Co.
*Emerson Apparatus Co., 251 Causeway St.
Mich., Detroit
Precision Instrument Co.
Mo., St. Louis
*Heil Chemical Co., Henry, 216 S. 4th Ave.
N. Y., New York City
American Meter Co., 561 W. 47th St.
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 3d Ave., 18th to 19th St.
Lenz Apparatus Co., Inc., 18 E. 16th St.
Sarco Co., Inc., 237 Broadway
N. Y., Rochester
Bausch & Lomb Optical Co.
Ohio, Lexington
*Smith Gas Engineering Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 717 Forbes Ave.

Calorimeters, Coal

Ill., Chicago
Daigger & Co., A., 52-56 W. Kinzie St.
Gaertner & Co., Wm., 5345 Lake Park Ave.
Schaar & Co., 1025 S. State St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Calorimeters, Gas

Ill., Chicago
*Gaertner & Co., Wm., 5345 Lake Park Ave.
*Sargeant Steam Meter Co., 2835 Armitage Ave.
*Schaar & Co., 1025 S. State St.
N. Y., New York City
Eimer & Amend, 205-211 3d St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Calorimeter Pans, Platinum

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Calorimeters, Steam

N. Y., New York City
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Cameras, Photomicrographic

N. Y., Rochester
Bausch & Lomb Optical Co.

Can Making Machinery

Conn., Bridgeport
Ams Machine Co., Max
Md., Baltimore
American Compressor & Pump Co., 801-805 E. Pratt St.
N. Y., Brooklyn
Leffler & Co., Chas., 49-73 Clymer St.
Wash., Seattle
Seattle-Astoria Iron Works, 601 Myrtle St.

Capsules

Col., Golden
Herold China & Pottery Co.
Mich., Detroit
Parke, Davis & Co.
N. Y., New York City
Behrend, F., 54 Front St.
Thermal Syndicate, Ltd., 50 E. 41st St.

Capsules, Alundum

Mass., Worcester
Norton Co., New Bond St.

Capsule Filling Machinery

Mich., Detroit
Colton Co., Arthur, 782 E. Jefferson Ave.
Pa., North Philadelphia
Stokes Machine Co., F. J.

Carbon Burning Outfits

Mass., Boston
Waterhouse Welding Co.

Carbon Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cleveland
Bartlett & Snow Co., C. O., French and Columbus Sts.

Carbonating Machinery

Ill., Chicago
Liquid Carbonic Co.
Magnus Sons Co., 327 W. Randolph St.
Wis., Grand Rapids
American Carbonic Machinery Co.

Carbonic Acid Determination Apparatus

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Carbonic Acid Gas Machinery

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
Pa., Carbondale
Carbondale Machine Co.

Carbonizing, Gas

N. Y., New York City
American Gas Furnace Co., 24 John St.

Carborundum Brick, "Silcar Brand"

N. J., Perth Amboy
Didier-March Co.

Carboy Inclinators

Minn., Minneapolis
McCord & Co., Horace M., Exchange Bldg.
N. Y., New York
Eimer & Amend, 3d Ave., 18th to 19th St.

Carboys

N. J., Bridgeton
Cumberland Glass Mfg. Co.
Pa., Philadelphia
Whitall-Tatum Co., 410 Race St.

Carlsruhe

N. Y., New York City
Rhodes & Co., James H., 162 William St.

Carriers

Ill., Chicago
Link-Belt Co., W. 39th and Stewart Ave.
Mass., Boston
Lamson Co., 100 Boylston St.
Mich., Saginaw
Werner & Pfleiderer, Inc.
Mo., St. Louis
Alvey Machinery Co., 3201 South Broadway
N. Y., New York City
Yale & Towne Mfg. Co., 9 E. 40th St.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Carriers, Cable

Mass., Boston
Lamson Co., 100 Boylston St.

Carriers, Wire Line Basket

Mass., Boston
Lamson Co., 100 Boylston St.

Cars, Drying

N. Y., New York City
Turl Iron & Car Co., Inc., 50 Broad St.

Cars, Dump

Cal., Los Angeles
Llewellyn Iron Works, N. Main and Redondo Sts.
Del., Wilmington
Walker & Elliott, Inc.
Ill., Aurora
Western Wheeler Scraper Co.
Ill., Chicago
Austin Mfg. Co., Manhattan Bldg.
Central Locomotive & Car Works, 345 S. Dearborn St.
National Dump Cart Co., 80 E. Jackson Blvd.
Sackett Screen & Chute Co., H. B. 1681 Elston Ave.

Cars, Dump—*cont.*

Ill., Harvey
Whiting Foundry Equipment Co.
Ind., Michigan City
Haskell & Barker Car Co.
Mass., East Boston
Mead-Morrison Mfg. Co., Prescott and Orleans Sts.
Mich., Detroit
Russell Wheel & Foundry Co.
Mo., St. Louis
American Car & Foundry Co., 915 Olive St.
St. Louis Car Co., 8000 N. Broadway
Mo., Springfield
United Iron Works
N. Y., Hillburn
Ramapo Iron Works
N. Y., Livingston, S. I.
Hunt Co., C. W.
N. Y., Long Island City
Stuebner Iron Works, G. L., 13th and Vernon Ave.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Bucyrus
American Clay Machinery Co., 201 E. Warren St.
Ohio, Cleveland
Atlas Car & Mfg. Co., Ivanhoe Road
Lakewood Engineering Co., Berea Road
Ohio, Columbus
Kilbourne & Jacobs Mfg. Co.
Ralston Steel Car Co.
Ohio, Youngstown
Youngstown Car & Mfg. Co.
Pa., Allentown
Traylor Engineering & Mfg. Co.
Pa., Easton
Easton Car & Construction Co., 200 4th St.
Pa., Koppel
Orenstein-Arthur Koppel Co.
Pa., Pittsburgh
Clark Car Co., Oliver Bldg.
Press Steel Car Co., Farmer's Bank Bldg.
Summers Steel Car Co., Oliver Bldg.
Wash., Seattle
Seattle Car & Foundry Co., Alaska Bldg.

Cars, Industrial

Ill., Harvey
Whiting Foundry Equipment Co.
Mich., Detroit
Northern Engineering Works, 14 Chene St.
Mo., St. Louis
American Car & Foundry Co., 915 Olive St.
N. J., Hoboken
Tidewater Iron Works, 725 Jefferson St.
N. Y., Livingston, S.I.
Hunt Co., C. W.
N. Y., Long Island City
Steubner Iron Works, G. L., Hancock St. and Vernon Ave.
N. Y., New York City
American Car & Foundry Co., 165 Broadway
Guarantee Construction Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Cleveland
Wellman-Seaver-Morgan Co., 7004 Central Ave.
Pa., Easton
Easton Car & Construction Co., 200 4th St.
Pa., Koppel
Orenstein-Arthur Koppel Co.
Pa., Pittsburgh
Press Steel Car Co., Farmer's Bank Bldg.
Tenn., Knoxville
Oliver Mfg. Co., Wm. J.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Cars, Railway

Ala., Anniston
Kilby Car & Foundry Co.
Del., Wilmington
Harlan & Hollingsworth Corp.
Ill., Chicago
Central Locomotive & Car Works, 345 S. Dearborn St.
Chicago Bridge & Iron Works, 37 W. Van Buren St.
Chicago Steel Car Co., 156th and Halstead Aves.
Pullman Company, Pullman Bldg.
Western Steel Car & Foundry Co., 37 W. Van Buren St.
Ind., Michigan City
Haskell & Barker Car Co.
Iowa, Bettendorf
Bettendorf Co.
Mich., Three Rivers
Sheffield Car Co.
Mo., St. Louis
American Car & Foundry Co., 915 Olive Bldg.
Ohio, Cleveland
Atlas Car & Mfg. Co., Ivanhoe Road
Ohio, Columbus
Ralston Steel Car Co.
Ohio, Dayton
Barney & Smith Car Co.

Cars, Railway—*cont.*

Pa., Erie
Erie Car Works, 17th and Raspberry Sts.
Pa., Philadelphia
Brill Co., J. G., 62d and Woodland Ave.
Cambria Steel Co., Widener Bldg.
Pa., Pittsburgh
Press Steel Car Co., Farmer's Bank Bldg.
Pa., South Bethlehem
Bethlehem Steel Co.
Va., Richmond
Tredegar Co.

Cars, Sterilizing

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Cars, Tank

Ill., Chicago
McGuire-Cummings Mfg. Co., 111 W. Monroe St.
Ind., Michigan City
Haskell & Barker Car Co.
Iowa, Davenport
Bettendorf Co.
Mo., St. Louis
American Car & Foundry Co., 915 Olive Bldg.
N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.
N. Y., New York City
Aetna Steel Products Co., Inc., 40 Church St.
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.
Ohio, Columbus
Ralston Steel Car Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Pa., Pittsburgh
Press Steel Car Co., Farmer's Bank Bldg.
Pa., Sharon
Pennsylvania Tank Car Co.

Carts, Benzine

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Carts, Fertilizer

Mich., Lansing
Lansing Co.
Pa., Harrisburg
Jackson Mfg. Co.
Tenn., Chattanooga
Chattanooga Wheelbarrow Co.

Carts, Industrial

Ill., Bradley
Bradley Machine Works
Ind., South Bend
South Bend Chilled Plow Works
Studebaker Corp.
Mass., Boston
Ames Plow Co., Quincy Hall
Mich., Lansing
Lansing Co.
Ohio, Ashland
Myers & Bro., F. E., 900 Orange St.
Ohio, Columbus
Kilbourne & Jacobs Mfg. Co.
Ohio, Toledo
Gendron Wheel Co.
Tenn., Chattanooga
Chattanooga Wheelbarrow Co.

Case Hardening Machines

N. Y., New York City
American Gas Furnace Co., 24 John St.

Case Hardening

Conn., Bridgeport
Bridgeport Steel Treating Co.
Conn., Bristol
Barnes, Wallace Co., 118 Wallace Ave.
Dunbar Bros. Co., 76 South St.
Ill., Chicago
Cassady-Fairbank Mfg. Co., 6126 S. La Salle Ave.
Mich., Detroit
Briscoe Mfg. Co., 1443 Woodward Ave.
N. J., Jersey City
Drop Forging Co., 299 West Side Ave.
N. Y., Brooklyn
Williams & Co., J. H., 73 Richards St.
N. Y., Buffalo
Crosby Co., 137 Pratt St.
N. Y., New York City
Frasse & Co., Inc., Peter A., 417 Canal St.
Holz, Herman A., Metropolitan Tower
N. Y., Utica
Bossert Corp., The

Cases, Bottle

Mass., Gloucester
Perkins Box Co.
Ohio, Defiance
Defiance Box & Coop Co.
Wis., Marinette
Marinette & Menominee Box Co.

Casseroles

Col., Golden
Herold China & Pottery Co.
Ill., Chicago
Daigger & Co., A., 52-56 W. Kinzie St.
N. J., Haddonfield
Wingender & Bro., Chas.

Casseroles—*cont.*

N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
Lenz Apparatus Co., Inc., 18 E. 16th St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Ohio, Cambridge
Guernesey Earthenware Co.
Ohio, Zanesville
Ohio Pottery Co.
Ohio, Sebring
Limoges China Co.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Casseroles, Pyrex Glass

N. Y., Corning
Corning Glass Works

Castings, Acid Proof

N. Y., New York City
Akerlund & Semmes, Inc., 17 Battery Pl.
Ohio, Cleveland
Cleveland Brass Mfg. Co., 4606-4700 Hamilton Ave.
Pa., Pittsburgh
Rosedale Foundry & Machine Co., Columbus and Preble Ave.

Castings, Acid Resistant

Ga., Atlanta
Mutual Foundry & Machine Co.
Pratt Engineering & Machine Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Fall River
Scott & Co., Ernest
N. J., Harrison
Driver-Harris Wire Co.
N. J., Newark
Acid Proof Iron Products Co., 47 Hermon St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P.
N. Y., New York City
Duriron Castings Co., 90 West St.
Green Fuel Economizer Co., 90 West St.
Jacoby, Henry E.
Pratt Engineering & Machinery Co.
Stevens Bros., 928 Singer Bldg.
N. Y., Niagara Falls
Titanium Alloy Mfg. Co.
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverly Sts.
Pa., Coatesville
Coatesville Boiler Works
Pa., Fullerton
Lehigh Foundry Co.
Pa., Philadelphia
Cramp & Sons Ship & Engine Building Co., Wm.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Castings, Air Furnace

Conn., Branford
Malleable Iron Fittings Co.
Conn., Naugatuck
Eastern Malleable Iron Co.
Mass., Springfield
Quigley Furnace & Foundry Co.
N. J., Paterson
Watson Machine Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., Syracuse
Syracuse Malleable Iron Works
Ohio, Youngstown
Todd Co., The Wm.
Youngstown Foundry & Machine Co.
Pa., Chambersburg
Chambersburg Engineering Co.
Pa., Fullerton
Lehigh Foundry Co.
Pa., Philadelphia
Chester Steel Castings Co., 407 Sansom St.
Pa., Pittsburgh
Garrison Foundry Co., 901 Bingham St.
Mesta Machine Co., Oliver Bldg.
Pa., Reading
Reading Iron Co.
Wis., Milwaukee
Wisconsin Malleable Iron Co., 90 S. Bay St.

Castings, Aluminum

Conn., New Britain
North & Judd Mfg. Co.
Conn., Torrington
Turner & Seymour Mfg. Co.
Conn., Waterbury
Waterbury Brass Goods Corp.
Ill., Chicago
Adams & Wesley Co. Ontario and Franklin Sts.
Chicago Aluminum Castings Co., 2647 Ogden Ave.
Chicago Malleable Castings Co. W. 120th and Center Ave.

Md., Baltimore
Maryland Brass & Metal Works, Guilford and Girard Aves.
Mass., Worcester
Reed Prentice Co.
Mich., Detroit
General Aluminum & Brass Mfg. Co., East Grand Blvd. and St. Aubin St.
N. J., Arlington
Lovell Co., F. H.
N. J., Newark
Aluminum Goods Mfg. Co.
N. Y., New York City
Burhorn Co., Edwin, 71 Wall St.
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverly Sts.
Ohio, Cleveland
Aluminum Castings Co., 6205 Carnegie Ave.
Ohio, Dayton
Buckeye Iron & Brass Works
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Hero Mfg. Co., Gaul and Adams Sts.
Midvale Steel Co., Widener Bldg.
Pa., Pittsburgh
Aluminum Co. of America
Pittsburgh Brass Mfg. Co., 3155 Pennsylvania Ave.
Pa., South Bethlehem
Bethlehem Steel Co.

Castings, Aluminum Bronze Die

N. Y., Niagara Falls
Titanium Alloy Mfg. Co.

Castings, Brass

Cal., Los Angeles
Acme Brass Foundry Co., 860 N. Main St.
Lelwellyn Iron Works, N. Main and Redondo Sts.
Conn., Ansonia
Ansonia Mfg. Co., River Road
Conn., Bristol
Bristol Brass Co.
Conn., Meriden
Miller & Co., Edw.
Conn., Middletown
Wilcox, Crittenden & Co., Inc.
Conn., New Britain
North & Judd Mfg. Co.
Conn., New Haven
Peck Bros. & Co., The
Conn., Torrington
Turner & Seymour Mfg. Co.
Conn., Waterbury
American Brass Co.
Scovill Mfg. Co.
Waterbury Brass Goods Corp.
Del., South Wilmington
Hilles & Jones Co.
Ga., Atlanta
Pratt Engineering & Machinery Co.
Ill., Chicago
Adams & Westlake Co., Ontario and Franklin Sts.
Federal Brass Works, 3100 S. Kenzie St.
Griffin Wheel Co., 332 S. Michigan Ave.
Illinois Engineering Co., Racine Ave. and 21st St.
Imperial Brass Mfg. Co., 524 S. Racine Ave.
Ind., Indianapolis
Keyless Lock Co., 1401 Newman St.
Nordyke & Marmon Co., 1290 Kentucky Ave.
Iowa, Burlington
Murray Iron Works Co.
Ky., Louisville
Ahrens & Ott Mfg. Co., 325 W. Main St.
Maine, Bath
Bath Iron Works, Ltd.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.
Maryland Brass Metal Works, Guilford and Girard Aves.
Poole Engineering & Machinery Co., Woodbury
Mass., Boston
American Tool & Machine Co., 10 High St.
McCallan Co., 11 Macallen St.
Mass., Worcester
Rice Barton & Fales Machine & Iron Co.
Mich., Detroit
Detroit Brass Works, Brooklyn and Belt Line
General Aluminum & Brass Castings Co., Grand Blvd. and St. Aubin St.
Mich., Three Rivers
Sheffield Car Co.
Mo., St. Louis
American Car & Foundry Co., 915 Olive St.
Moore-Jones Brass & Metal Co., 3144 N. Broadway
Mo., Springfield
United Iron Works
N. J., Arlington
Lovell & Co., F. H.
N. Y., Brooklyn
Atlantic Smelting & Refining Works, 36-42 Delavan St.
Bliss Co., E. W., 19 John St.
Doehler Die-Castings Co., 9th and Court Sts.

Castings, Brass—*cont.*

N. Y., Buffalo
Lumen Bearing Co., 1155 Sycamore St.
Titanium Alloy Mfg. Co.
N. Y., New York City
American Brass Forging Co., Inc., 168 Southern Blvd.
Bronze Metal Co., 30 Church St.
Burhorn Co., Edwin, 71 Wall St.
Gerdes & Co., Inc., 30 Church St.
Henry-Bonnard Bronze Co., 20 Exchange Pl.
Magnus Co., The, 111 Broadway
Metals Production Equipment Co., 165 Broadway
Roos' Sons, August, 429 E. 91st St.
Wilfert Co., John, 259 Broadway
N. Y., Niagara Falls
Titanium Alloy Mfg. Co.
Titanium Bronze Co., The
Ohio, Alliance
Morgan Engineering Co.
Ohio, Cincinnati
American Copper & Brass Works, 612 E. Front St.
American Valve & Meter Co., 2833 Spring Grove Ave.
Crane & Breed Mfg. Co., 1227 W. 8th St.
Lunkenheimer Co., Beekman and Waverly Sts.
Van Dusen Co., E. W., 1428 E. 2d St.
Ohio, Cleveland
Aluminum Castings Co., 6205 Carnegie Ave.
Bartlett & Snow Co., C. O., 1040 French St.
Buckeye Brass & Mfg. Co., 1807 Columbus Road
Ohio, Dayton
Buckeye Iron & Brass Works
Ohio, Youngstown
Todd Co., Wm.
Pa., Chester
Wetherill & Co., Robert
Pa., Philadelphia
Ajax Metal Co., 48 Richmond St.
American Manganese Bronze Co., Rhawn and Hegeman Sts.
Cramp & Sons Ship & Engine Building Co., Wm., Richmond and Norris Sts.
North American Smelting Co., 9th and Thompson Sts.
Pa., Pittsburgh
Aluminum Co. of America, Oliver Bldg.
Damascus Bronze Co., 928 South Ave.
Keystone Bronze Co., 39th St. and A. V. R. R.
Lawrenceville Bronze Co., 3036 Penn Ave.
Pittsburgh Valve Foundry & Construction Co.
Pa., Scranton
Everhart Brass Works
Pa., South Bethlehem
Bethlehem Steel Co.
Wash., Seattle
Seattle Brass Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Wisconsin Foundry Co., 1138 32d St.

Castings, Bronze (*see Castings, Brass*)

Castings, Caustic (*see Castings, Chemical*)

Castings, Copper (*see Castings, Brass*)

Castings, Chemical

Ga., Atlanta
Mutual Foundry & Machine Co.
Pratt Engineering & Machine Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Jones Foundry & Machinery Co., W. A., 4404 W. 12th St.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Fall River
Scott & Co., Ernest
Mich., Detroit
Russell Wheel & Foundry Co.
N. J., Carteret
Wheeler Condenser & Engineering Co
N. J., East Burlington
U. S. Cast Iron Pipe & Foundry Co.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Harrison
Driver-Harris Wire Co.

Castings, Chemical

N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co., Inc., 141 Hermon St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester St.
Devine Co., J. P.
Sowers Mfg. Co., 1300 Niagara St.
Farrar & Trefts, 47 Perry St.
N. Y., New York City
Duriron Castings Co., 90 West St.
Metals Production Equipment Co., 165 Broadway
Roos' Sons, August
Stevens Brothers, 928 Singer Bldg.

Ohio, Cincinnati
Day Co., J. H.
Lunkenheimer Co., Beekman and Waverly Sts.
Ohio, Cleveland
Steel Improvement & Forge Co., 5000 Winsor Ave.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Catasauqua
Lehigh Car, Wheel & Axle Works
Pa., Coatesville
Coatesville Boiler Works
Pa., Philadelphia
Chester Steel Castings Co., 407 Sansom St.
Midvale Steel Co., Widener Bldg.
Wood & Co., R. D., 400 Chestnut St.
Pa., Pittsburgh
Edgewater Steel Co.
Marshall Foundry Co., 28th and R.R.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Bethlehem Steel Co.

Castings, Composition

Conn., Ansonia
Ansonia Mfg. Co., River Road
Conn., New Britain
North & Judd Mfg. Co.
Ill., Chicago
Illinois Malleable Iron Co., 1801 Diversey Blvd.
N. Y., Brooklyn
Doehler Die-Castings Co., Court and 9th Sts.
N. Y., New York City
Burhorn Co., Edwin, 71 Wall St.

Castings, Converter

Conn., Branford
Malleable Iron Fittings Co.

Castings, Copper, Pure

N. Y., Niagara Falls
Titanium Bronze Co.

Cathetometers

N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Sq.

Cathodes

Ill., Chicago
Gaertner & Co., Wm., 5345 Lake Park Ave.

Cathodes, Gold

N. Y., Niagara Falls
Acheson Graphite Co.
Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
Pa., Philadelphia
*Scientific Materials Co., 711-19 Forbes St.

Cathodes, Graphite

N. Y., Niagara Falls
International Acheson Graphite Co.

Cathodes, Platinum

N. Y., Newark
American Platinum Co., 225 N. J. R. R. Ave.

Caustic Recovery Apparatus

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Caustic Soda Apparatus

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
N. Y., Buffalo
Devine Co., J. P.
Zaremba Co., D. R., Morgan Bldg.
N. Y., New York City
Dorr Co., The, 17 Battery Pl.

Caustic Soda Waste Recovery

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.

Causticizing Apparatus

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Zaremba Co., D. R., Morgan Bldg.

Ceilings, Steel

Ohio, Canton
Berger Mfg. Co.

Cells, Acid Proof Diaphragm

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Cells, Electrolytic

Maine, Portland
Electron Chemical Co., 534 Congress St.
N. Y., New York City
Electron Chemical Co., 1942 Woolworth Bldg.
Hooker Electrolytic Chemical Co., 40 Wall St.
Warner Chemical Co., 52 Vanderbilt Ave.
N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.
Ohio, Dayton
Electro Chemical Co., 111 W. Court St.

Cells, Leaching

Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
N. Y., Buffalo
Zaremba Co., Niagara Life Ins. Bldg.
N. Y., New York City
Hooker Electrolytic Chemical Co., 40 Wall St.

Cells Sodium Hypochlorite

Ohio, Dayton
Electro Chemical Co., 111 W. Court St.

Celluloid Machinery

Conn., Ansonia
Farrel Foundry & Machine Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Cement Machinery

Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., New York City
Aero Pulverizer Co., 120 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Hill Clutch Co.
Ohio, Columbus
Jeffrey Mfg. Co.
Pa., Allentown
Traylor Engineering & Mfg. Co.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.
Pa., Wilkes-Barre
Vulcan Iron Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Cement Testing Machines

Cal., San Francisco
Braun-Knecht-Heimann Co., 576 Mission St.
Ill., Chicago
Humboldt Mfg. Co., 2014 Nebraska Ave.
Pa., Philadelphia
Olsen Testing Machine Co., Tinius, 500 N. 12th St.
Riehle Bros. Testing Machine Co., 1424 N. 9th St.
*Thomas Co., Arthur H., 238 W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Centrifugal Machinery, Special

N. J., Trenton
De Laval Steam Turbine Co.

Centrifugals, Clarifying

Mass., Boston
International Equipment Co., 353 Western Ave.
Mich., Saginaw
Werner & Pfleiderer Co.
N. Y., New York City
DeLaval Separator Co., 165 Broadway
Hepworth Co., S. S., 2 Rector St.
Machinery Utilities Co., Inc., 501 5th Ave.
N. Y., Troy
Tolhurst Machine Works
Pa., Philadelphia
Schaum & Uhlriger, Inc., Cor. Glenwood Ave. and 2d St.
Pa., West Chester
Sharples Separator Co.

Centrifugals, Industrial

Del., Wilmington
Pusey & Jones Co.
La., New Orleans
Joubert & Goslin Machine & Foundry Co., Howard and Euphrosine Sts.
Mass., Boston
American Tool & Machine Co., 10 High St.
International Equipment Co., 353 Western Ave.
Mich., Saginaw
Werner & Pfleiderer Co., Inc.

Centrifugals, Industrial—*cont.*

N. Y., Buffalo
Squier Mfg. Co., Broadway and Mortimer Sts.
N. Y., New York City
DeLaval Separator Co., 165 Broadway
Hepworth Co., S. S., 2 Rector St.
Machinery Utilities Co., Inc., 501 5th Ave.
Sanborn Evaporator Co., 87 Wall St.
N. Y., Troy
Tolhurst Machine Works
Pa., Philadelphia
Cresson-Morris Co., 18th and Allegheny Ave.
D'Olier Centrifugal Pump & Machine Co., 1421 Chestnut St.
Schaum & Uhlinger, Glenwood and North America Sts.
Pa., West Chester
Sharpless Specialty Co.

Centrifugals, Laboratory

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Mass., Boston, Brighton Sta.
International Equipment Co., 353 Western Ave.
N. Y., New York City
*Bouline, Victor J., 1 Union Sq.
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
N. Y., Troy
Tolhurst Machine Works
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Centrifugals, Nitrating

N. Y., Troy
Tolhurst Machine Works

Centrifugals, Oil

Mass., Boston
National Separator & Machine Co., 89 State St.
N. Y., New York City
DeLaval Separator Co., 165 Broadway
Pa., Philadelphia
D'Olier Centrifugal Pump & Machine Co., Morris Bldg.
Oil & Waste Saving Machine Co., 1509 Rest Estate Trust Bldg.
Pa., West Chester
Sharples Separator Co.

Centrifugals, Separating

Mass., Boston
International Equipment Co., 353 Western Ave.
N. Y., New York
DeLaval Separator Co., 165 Broadway
Pa., West Chester
Sharples Separator Co.

Centrifugals, Sugar

Conn., Derby
Dairy Machinery & Construction Co.
Del., Wilmington
Pusey & Jones Co.
Ill., Chicago
Sharples Separator Co., 565 W. Washington St.
La., New Orleans
Haubtman & Loeb Co., 1717 Magazine St.
Murphy, Jno. H., 643 Magazine St.
Payne & Joubert, 2304 Euphrosine St.
Mass., S. Framingham
Mason & Co., Marcus
N. J., Bloomfield
Empire Cream Separator Co.
N. J., New Jersey
Flynn, W. S., 74 Hudson St.
N. Y., Brooklyn
Krajewski Pesant Corp., 52 Beard St.
Pioneer Iron Works, 149 Pioneer St.
N. Y., Buffalo
Squier Mfg. Co., Geo. L., Broadway and Mortimer Sts.
N. Y., New York City
Deeley & Co., Robt., 29 Broadway
DeLaval Separator Co., 165 Broadway
Turl's Sons, Jno., 55 Liberty St.

Chains

Conn., Bridgeport
American Chain Co., Inc.
Conn., Waterbury
American Brass Co.
Plume & Atwood Mfg. Co.
Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Caldwell & Son Co., H. W., 17th and Western Ave.
Link-Belt Co., W. 39th and Stewart Ave.
N. J., Trenton
Roeblings Sons Co., John A.
N. Y., Ithaca
Morse Chain Co.
N. Y., New York City
Hungerford Brass & Copper Co., U. T., 80 Lafayette Ave.
Ingersoll & Brother, R. H., 315 4th Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O., French and Columbus Sts.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Chain Belt Co., 744 Park St.

Chamber Plant Details

N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.

Chamois

Mass., Boston
Clark Co., A. B., 107 South St.
N. J., Newark
Newark Chamois Co.
N. Y., New York City
American Sponge & Chamois Co., Inc., 73 Wooster St.
Laskor & Bernstein, 161 William St.
Leousi, Clonney & Co., 39 Walker St.
Rhodes & Co., James H., 162 William St.
Young Co., Richard, 36 Spruce St.
Borgfeldt & Co., Geo., 16th and Irving Pl.
McKesson & Robbins, 91 Fulton St.
National Sponge & Chamois Co., 158 William St.
Pa., Philadelphia
Burk & Co., Wm. B., 534 Arch St.
Drueding Bros. Co., 5th and Master Sts.
Smith, Kline & French Co.
Pa., Scranton
Black Horn Sales Co.

Chemical Apparatus

Cal., Berkeley
University Apparatus Co., 2229 McGee Ave.
Cal., Los Angeles
Braun Corp., The, 363 Mission St.
Ga., Atlanta
Pratt Engineering & Machine Co.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Daigger & Co., A., 52-56 W. Kinzie St.
Kaestner & Hecht Co., Inc., Harrison and Throop Sts.
Laboratory Materials Co., 7404 Calumet Ave.
Swenson Evaporators Co., 945 Monadnock Block
Mass., Boston
American Tool & Machine Co.
Badger & Sons Co., E. B.
Lummus Co., Walter E.
Sturtevant Mill Co.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Bay City
Bay City Iron Co.
Mich., Detroit
Detroit Heating & Lighting Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Mo., St. Louis
Heil Chemical Co., Henry, 210-214 S. 4th St.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Trenton
Crossley Machine Co., Bell and Monmouth Sts.
N. Y., Buffalo
Sowers Mfg. Co., 1300 Niagara St.
Zaremba Co., Morgan Bldg.
N. Y., New York City
Duriron Castings Co., 90 West St.
Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
Lenx Apparatus Co., Inc., 18 E. 16th St.
Standard Scientific Co., 147 Waverly Pl.
Stevens, Aylsworth Co., Inc., 253 Broadway
Stevens Brothers, 149 Broadway
N. Y., Rochester
Pfaudler Co., The
Ohio, Cincinnati
Lynn Superior Co., 3250 Spring Grove Ave.
Ohio, Columbus
Laboratory Supply Co., 41 E. Chestnut St.
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Sq.
Steele Glass Co., 622 Locust St.
Whitall-Tatum & Co., 410 Race St.
Pa., Pittsburgh
Scientific Materials Co., 719 Forbes St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Chemical Equipment (*see Chemical Apparatus*)

Chemical Factory Control

Ill., Chicago
Block Chemical Laboratories, 208 S. La Salle St.

Chewing Gum Machinery

Mich., Saginaw
Werner & Pfleiderer Co. 1260 N. Niagara St.

Chilling Machines

Pa., Carbondale
Carbondale Machine Co.

Chimneys, Iron and Steel

Mich., Muskegon
Muskegon Boiler Works

Chimneys, Iron and Steel—*cont.*

N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.
Ohio, Akron
Biggs Boiler Works
Pa., Chester
Wetherill & Co., Robert
Pa., Coatesville
Coatesville Boiler Works

Chimneys, Radial Brick and Concrete

Ill., Chicago
Weber Chimney Co., 332 S. Michigan Ave.
Mich., Detroit
Trussed Concrete Steel Co.
N. Y., New York City
Kellogg Co., The M. W., 90 West St.

Chlorinating Apparatus (*see Chlorine Plants*)

Chlorine Plants

Mass., Boston
Little Co., Arthur D.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 47 Winchester Ave.
N. Y., New York
General Ceramics Co., 50 Church St.
Worthington Pump & Machinery Corp., 113 Broadway
Pa., Philadelphia
Electro Chemical Supply & Engineering Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Chlorinators

N. Y., New York City
Palo Co., 90 Maiden Lane

Chlorine, Electrolytic, Plants

Me., Portland
Electron Chemical Co.
N. Y., New York City
Foundation Co., The Woolworth Bldg.
Westinghouse, Church, Kerr & Co., 37 Wall St.
Warner Chemical Co., 52 Vanderbilt Ave.
Ohio, Dayton
Electro Chemical Co.
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.

Chloroform Plants

Ill., Chicago
Kaestner & Hecht Co., Inc.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.

Chocolate Machinery

Mass., Boston
New England Chocolate Machinery Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Buffalo
Sowers Mfg. Co.

Churns

Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie St.
Iowa, Cedar Rapids
Cherry Co., J. G.
N. Y., Little Falls
Burrell Co., D. H.
N. Y., Long Island City
Jensen Creamery Machine Co.

Chutes

Ill., Chicago
Fairbanks-Morse & Co., 90 S. Wabash Ave.
Link-Belt Co., W. 39th and Stewart Ave.
Mass., Boston
Lamson Co., 100 Boylston St.
N. J., East Burlington
U. S. Cast Iron Pipe & Foundry Co.
N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Ohio, Columbus
Jeffrey Mfg. Co.
Pa., Pittsburgh
Scaife & Sons Co., W. B., First Nat. Bank Bldg.

Chutes Gravity Spiral

Pa., Ellwood City
Mathews Gravity Carrier Co.

Circuit Borakers

Mass., South Boston
Condit Electrical Mfg. Co.

Clamps, Laboratory

Mass., Boston
*Knott Apparatus Co., L. E., Cambridge "A" Station.

Clarification Plants

Pa., West Chester
Sharples Specialty Co., The

Clarifiers (*Classified lists follow*)

Clarifiers, Centrifugal (*see Centrifugals, Clarifying*)

Clarifiers, Sugar (*see Centrifugals, Sugar*)

Clarifiers, Vacuum

N. Y., New York City
Dorr Co., The, 17 Battery Pl.

Clarifiers, Chemical

Cal., Los Angeles
Llewellyn Iron Works, 120 N. Main St.
Col., Denver
Denver Iron Works Co., 30th and Blake Sts.
N. J., Newark
James Concentrator Co.
N. Y., New York City
Dorr Co., The, 17 Battery Pl.
Mine & Smelter Supply Co., 42 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Classifiers, Metallurgical

N. Y., New York City
Dorr Co., The, 17 Battery Pl.

Clay Working Machinery

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Dorr Co., The, 17 Battery Pl.
Mich., Saginaw
Werner & Pfleiderer, Inc., 1260 N. Niagara St.
Ohio, Bucyrus
American Clay Machinery Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Dayton
International Clay Machinery Co.
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Pa., Philadelphia
Chambers Bros. Co., 52d and Media St.

Cleaners, Condenser

Ohio, Springfield
Lagonda Mfg. Co., 1809 Sheridan Ave.

Cleaners, Boiler Tube

Ill., Chicago
Ryerson & Son, Joseph T.
N. Y., New York City
Johns-Manville Co., Madison Ave. and 41st St.
Ohio, Cleveland
Bishop-Babcock-Becker Co.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Houghton & Co., 240 W. Somerset St.
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., First Nat. Bank Bldg.

Cleaners, Coal

Ill., Chicago
Caldwell & Son Co., H. W., 17th and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Sackett Screen & Chute Co., 1681 Elston Ave.
Weller Mfg. Co., 1820 N. Kostner Ave.
Mass., Clinton
Clinton Wire Cloth Co.
Mass., Worcester
Wright Wire Co.
N. J., Newark
Newark Wire Cloth Co., 228 Verona St.
N. J., Trenton
N. J. Wire Cloth Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O., French and Columbus Sts.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.

Cleaners, Ore (*see Cleaners, Coal*)

Clips, Test Tube (wooden)

N. Y., New York City
*Estes & Sons, E. B., 362 5th Ave.

Cloth, Bolting

Mich., Detroit
Michigan Wire Cloth Co., 504 Howard St.
N. J., Newark
Newark Wire Cloth Co., 228 Verona Ave.
N. Y., New York City
Abbe, Paul O., 30 Broad St.
Abbe Engineering Co., 220 Broadway
Multi-Metal Separating Screen Co., 255 W. 19th St.
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Cloth, Bolting, Metallic

N. J., Newark
Newark Wire Cloth Co., 222-228 Verona Ave.

Cloth, Centrifugal

N. J., Newark
Newark Wire Cloth Co., 222-228 Verona Ave.
N. Y., New York City
Multi-Metal Separating Screen Co., 255 W. 19th St.
Provost Engineering Corp., 220 Broadway

Cloth, Filter Press

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Interstate Cotton Mills Corp.
Mo., St. Louis
Bemis Bros. Bag Co., 600 S. 4th Ave.
N. J., Newark
Newark Wire Cloth Co., 222-228 Verona Ave.
Pa., Philadelphia
Parker Co., F. T., 232 Chestnut St.

Cloth, Filter, Cotton

Md., Baltimore
Mt. Vernon-Woodberry Mills, Inc.
Mo., St. Louis
Bemis Bros. Bag Co., 600 S. 4th Ave.
N. J., Passaic
Brighton Mills
N. Y., Albany
Huyck & Sons, F. C.
N. Y., Brooklyn
Brooklyn Filter Bag Co., 643 Kent Ave.
N. Y., New York
*Turner, Halsey Co., 62 Leonard St.

Cloth, Filter

Ill., Batavia
Sperry & Co., D. R.
Ga., La Grange
Unity Cotton Mills
Ill., Chicago
Channon Co., H., Market and Randolph Sts.
Mo., St. Louis
Bemis Bros. Bag Co., 600 S. 4th Ave.
N. J., Harrison
Shriver & Co., T.
N. J., Passaic
Brighton Mills
N. Y., Albany
Huyck & Sons, F. C.
N. Y., Brooklyn
Brooklyn Filter Bag Co., 643 Kent Ave.
Johnson Co., John, 37th and 2d Ave.
National Filter & Cloth Weaving Co., 57 Hope St.
N. Y., New York City
Boyle & Co., John, 112 Duane St.
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Lamb, Finlay & Co., 258 Church St.
Lane & Co., J. H., 334 4th Ave.
Provost Engineering Corp., 220 Broadway
Redfield & Co., Robt. S., 17 Battery Pl.
*Turner, Halsey Co., 62 Leonard St.
Van Emden Co., H., 145 W. 45th St.
Md., Baltimore
Mt. Vernon-Woodberry Mills, Inc.
N. Y., Oriskany
Waterbury & Sons Co., H.
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.
Wis., Milwaukee
Milwaukee Bag Co., 206 S. Water St.

Cloth, Filter, Special grades

Md., Baltimore
Mt. Vernon-Woodberry Mills, Inc.
N. Y., New York
Turner, Halsey Co., 62 Leonard St.

Cloth, Filter Wire

Ill., Batavia
Sperry & Co., D. R.
N. J., Newark
Newark Wire Cloth Co., 222-228 Verona Ave.
N. Y., New York City
Multi-Metal Separating Screen Co., 68 E. 131st St.
Provost Engineering Corp., 220 Broadway
Van Emden Co., H., 145 W. 45th St.

Cloth, Filter, Metallic

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
American Wire Fabrics Co.
N. J., Harrison
Shriver & Co., T.
N. J., Newark
Newark Wire Cloth Co., 222-228 Verona Ave.
N. Y., New York City
Multi-Metal Separating Screen Co., 225 W. 19th St.
Van Emden Co., H., 145 W. 45th St.
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.

Cloth, Filter, Camels Hair

La., New Orleans
Mente & Co.
N. Y., New York City
*Boyle & Co., 112 Duane St.
Goepel & Co., L. F., 137 E. 13th St.
*Turner, Halsey Co., 62 Leonard St.

Cloth, Waterproof

Del., Wilmington
Du Pont Fabrikoid Co.
Ill., Chicago
Lehon Co., W., 45th and Oakley Ave.
N. Y., New York City
Boyle & Co., 112 Duane St.
Hydrex Felt & Eng. Co., 120 Liberty St.
International Rubber Co., 120 Broadway

Cloth Machinery, All Purposes

Conn., Middletown
Palmer Co., E. I.
Mass., Boston
Riley Co., C. E., 65 Franklin St.
Mass., Holyoke
Holyoke Machine Co.
Mass., Hopedale
Draper & Co.
Mass., Orange
Hunt Machine Co., R.
Mass., Worcester
Curtis & Marble Machine Co.
N. Y., Troy
Tolhurst Machine Works
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
Pa., Philadelphia
Philadelphia Drying Machine Co.
R. I., Providence
Textile Finishing Machinery Co.

Cloth, Wire

Conn., Georgetown
Gilbert & Bennett
Mass., Clinton
Clinton Wire Cloth Co.
Mich., Detroit
Michigan Wire Cloth Co.
N. J., Newark
Newark Wire Cloth Co., 222-228 Verona Ave.
N. J., Trenton
New Jersey Wire Cloth Co.
N. Y., New York City
Hungerford Brass & Copper Co., U. T., 80 La Fayette St.
Multi-Metal Separating Screen Co., 255 W. 19th St.
Ohio, Cleveland
Tyler Co., W. S.
Pa., Philadelphia
Supplee Biddle Hardware Co.

Clutches, Friction

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Caldwell & Sons Co., H. W., 17th and Western Aves.
Link-Belt Co., W. 39th and Stewart Ave.
Ky., Louisville
Caldwell Co., W. E.
Md., Baltimore
Poole Engineering & Machine Co.
N. Y., Buffalo
Farrar & Trefts, 47 Perry St.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Tiffin
Webster Mfg. Co.

Coal Briquetting Machinery

N. Y., New York City
Mashek Engineering Co., 90 West St.
Pa., Allentown
Traylor Engineering & Machine Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Coal Burning Equipment, Powdered

Ill., Chicago
*Stroud & Co., E. H., 928 Fullerton Ave.
N. Y., New York City
Quigley Furnace Specialties Co., Inc., 26 Cortlandt St.

Coal Crushers (*see Crushers, Coal*)

Coal Gas By-Product Plants (*see Coke By-Products Plants*)

Coal Gas Plants

Md., Baltimore
Bartlett-Hayward Co.
N. Y., New York City
Improved Equipment Co., 60 Wall St.
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Pa., Philadelphia
United Gas Improvement Co., 1514 S. Broad St.
Wood & Co., D. R., 400 Chestnut St.

Coal Gas Scrubbers (*see Scrubbers*)

Coal Handling Machinery

Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Goodman Mfg. Co., Halstead St. and 48th Pl.
Link-Belt Co., W. 39th and Stewart Ave.

Coal Handling Machinery—*cont.*

Ill., Chicago—cont.
Stroud & Co., E. H., 928 Fullerton Ave.
Sullivan MacInery Co., People's Gas Bldg.
Weller Mfg. Co., 1820-1856 N. Kostner Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mass., East Boston
Mead Morrison Mfg. Co.
N. Y., New York City
Guarantee Construction Co., 90 West St.
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Ingersoll Rand Co., 11 Broadway
Van Emden Co., H., 145 W. 45th St.
N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.
Ohio, Cincinnati
Alvey-Ferguson Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 954 N. 4th St.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.
Wis., Milwaukee
Chain Belt Co., 734 Park St.

Coal Pulverizers (*see Pulverizers, Coal*)

Coal Repairing Equipment

Pa., Carbondale
Cross Engineering Co.
Pa., Pittsburgh
Pittsburgh Coal Washer Co., 812 Fulton Bldg.
W. Va., Fairmont
Fairmont Mining Machinery Co.

Coal Separators

Ill., Chicago
Raymond Bros. Impact Pulverizer Co.
Mass., Boston
Huff Electrostatic Separator Co.
Sturtevant Mill Co., Harrison Sq.

Coal Storage Installations (*see Coal Handling Machinery*)

Coal Tar Plants

England, Widnes
Widnes Foundry Co., Ltd., The
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-65 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Cambridge
Little Co., Arthur, Charles River Rd.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.

Coal Testing Apparatus

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Mo., St. Louis
Heil Chemical & Mfg. Co., 216 S. 4th St.
Pa., Philadelphia
Thomas Co., Arthur H., 238 W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 717 Forbes St.

Coal Washers (*see also Coal Handling Machinery*)

Pa., Pittsburgh
Pittsburgh Coal Washer Co., 812 Fulton Bldg.

Coats, Laboratory (*see Aprons*)

Coating Machinery

N. Y., Rochester
Knowlton Co., M. D.
Pa., Philadelphia
Moore & White Co.
Stokes Machine Co., F. J.

Coatings, Acid Resisting

Mich., Detroit
Trus-Con Laboratories, Caniff Rd.
N. Y., Long Island City
Horn Co., A. C.
N. Y., New York
Du Pont Chemical Works, 120 Broadway
Toch Bros., 320 5th Ave.
N. Y., Syracuse
Semet-Solvay Co.
Mo., St. Louis
Certain-teed Products Corp., 314 N. Broadway
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Rd.
R. I., Providence
U. S. Gutta Percha Paint Co.

Coatings, Damp Resisting

N. Y., Long Island City
Horn Co., A. C.

Cocks

Ill., Chicago
Redlich Mfg. Co., 637 W. Oak St.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
United Lead Co., 111 Broadway
Wilfert Co., John, 259 Broadway
Ohio, Akron
U. S. Stoneware Co.
Pa., Erie
Jarecki Mfg. Co.
Pa., Pittsburgh
National Tube Co.

Cocks, Ball, Acid Proof

Mass., Boston
d'Este Co., Julian, 26 Canal St.
N. Y., New York City
Mott Iron Works, J. L., 118 5th Ave.
Wilfert Co., John L., 259 Broadway
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverley Sts.

Cocks, Brass

Ohio, Cleveland
Cleveland Brass Mfg. Co., 4606-4626 Hamilton Ave.
Pa., Pittsburgh
National Tube Co.

Cocks, Bronze (*see Cocks, Brass*)

Cocks, Filter Press

Ill., Batavia
Sperry Co., D. R.
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverley Sts.

Cocks, Flanged

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
Ohio, Cincinnatti
Lunkenheimer Co., Beekman & Waverly
Pa. Pittsburgh
National Tube Co.
N. Y., New York City
Jenkins Brothers 80 White St.
Wilfort Co., John, 259 Broadway
Ohio, Cincinnatti
Lunkenheimer Co., Beekman & Waverly.
Powell Co., The Wm.. 2521 Spring Grove Ave.
Pa., Erie
Jarecki Mfg., Co.

Cocks, Hard Lead

N. Y., New York City
United Lead Co., 111 Broadway

Cocks, Plug

N. Y., New York City
Duriron Castings Co., 90 West St.
Ohio, Cleveland
Cleveland Brass Mfg. Co., 4606-4700 Hamilton Ave.
Pa., Pittsburgh
National Tube Co.

Cocks, Rubber

N. J., New Brunswick
Pennsylvania Rubber Co.

Cocks, Steam

Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Cocks, Stoneware

N. Y., New York
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Cock Tops, Wooden

Ill., Chicago
Redlich Mfg. Co., 637 W. Oak St.

Cocoa Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Coiling Machines, Spring and Wire

Mass., Worcester
Sleeper & Hartley, Inc., 68 Prescott St.

Coiling Machines, Tungsten Filament

Mass., Worcester
Sleeper & Hartley, Inc., 68 Prescott St.

Coils, Acid Proof Stoneware

N. Y., New York City
General Ceramics Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice E.

Coils, Aluminum

Pa., Pittsburgh
Aluminum Co. of America, Oliver Bldg.

Coils, Ammonia

N. J., Brunswick
Brunswick Refining Co.
N. Y., New York City
De La Vergne Machine Co., E. 138th St.
Wilfert Co., John, 258 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Coils, Brass

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. J., Bayonne
Cox Engineering & Tube Bending Machine Works
N. Y., New York City
Gerdes & Co., Inc., 40 Church St.
Roos Sons, August, 429 E. 91st St.
Wilfert Co., John, 258 Broadway
Pa., Philadelphia
Philadelphia Pipe Bending Co.

Coils, Cast Iron Enameled Condenser

England, Deepfields, nr. Bilston, Staffs.
Cannon Iron Foundries, Ltd.

Coils, Chemical

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. J., Bayonne
Cox Engineering & Tube Bending Machine Works
N. Y., Brooklyn
Graham Chemical Pottery Works, Charles, 986 Metropolitan Ave.
N. Y., New York City
General Ceramics Co., 50 Church St.
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Akron
United States Stoneware Co.

Coils, Cooling (*see Specific Heading*)

Coils, Copper

Md., Baltimore
Baltimore Tube Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. J., Bayonne
Cox Engineering & Tube Bending Machine Works
N. Y., New York City
Gerdes & Co., Inc., 30 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Roos Son, August, 429 E. 91st St.
Wilfert Co., John, 258 Broadway

Coils, Induction

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Pa., Philadelphia
Biddle, James G.
Queen-Gray Co.

Coils, Heating (*see Specific Heading*)

Coils, Iron

N. J., Bayonne
Cox Engineering & Tube Bending Machine Works
N. Y., New York City
Gerdes & Co., Inc., 30 Church St.

Coils, Lead

N. J., Bayonne
Cox Engineering & Tube Bending Machine Works
N. Y., New York City
United Lead Co., 111 Broadway

Coils, Pipe (*see also Specific Headings*)

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., New York City
Cox Engineering & Tube Bending Machine Works
Simmons Co., John, 110 Centre St.
Wilfert Co., John, 258 Broadway
Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Coils, Platinum

N. J., Newark
American Platinum Works, 281 N. J. R. R. Ave.
Bishop & Co., Inc., 54 Austin St.
Pa., Malvern
Bishop & Co., J., Platinum Works

Coil Winders, Resistance

Mass., Worcester
Sleeper & Hartley, Inc., 68 Prescott St.

Coilers, Flexible Shaft Casing and Metallic Tubings

Mass., Worcester
Sleeper & Hartley, Inc., 68 Prescott St.

Coke By-Products Plants

Colo., Denver
American Coal Reduction & By-Products Co.
Ill., Chicago
Universal Engineering Co., 700 W. 22d St.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Cambridge
Little Co., Arthur D., Charles River Rd.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
N. Y., New York City
Kalbperry Corp., 31 Union Sq., W.
Otto Coking Co., 6 Church St.
Westinghouse, Church, Kerr & Co., 37 Wall St.
Pa., Pittsburgh
Koppers Co., H., Union Ave.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Coke Ovens, Retort

Ill., Chicago
American Refractories Co., 208 S. La Salle St.
N. Y., New York City
Otto Coking Co., 6 Church St.
N. Y., Syracuse
Semet-Solvay Co.
Pa., Pittsburgh
Coal & Coke By-Products Co.
Koppers Co., H., Union Ave.

Coke Screening Machinery (*see Screens*)

Coke Testing Apparatus

Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Collecting Systems, Dust

Ill., Chicago
Clark Dust Collecting Co., 1116 Fisher Bldg.
Stroud & Co., E. H., 928 Fullerton Ave.
Mass., Boston
Sturtevant & Co., Harrison Sq.
Md., Baltimore
Dixie Mfg. Co., Inc.
N. Y., Brooklyn
Meadon's Blower & Pipe Works, 23-27 Meserole Ave.
N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway

Colorimeters

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
*Schaar & Co., 1025 S. State St.
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Color Plants (*see also Mills, Color*)

N. Y., Buffalo
Devine Co., J. P.

Coloring and Tempering Machines

N. Y., New York City
American Gas Furnace Co., 24 John St.

Colorscopes

Ill., Chicago
Briedler Co., J. L., 334 S. Clinton St.

Columns, Absorbing

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Columns, Distilling

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.

Columns, Distilling—*cont.*

N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Columns, Fractionating

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Columns, Iron

Cal., Los Angeles
Llewellyn Iron Works, N. Main and Redondo Sts.
Mo., St. Louis
Laclede Steel Co., 415 Pine St.
N. Y., Lackawanna
Lackawanna Steel Co.
Ohio, Youngstown
Youngstown Sheet & Tube Co.
Pa., Altoona
Altoona Iron Co.
Pa., Lehigh
Lehigh Foundry Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Midvale Steel Co., Widener Bldg.
Pa., Pittsburgh
Carnegie Steel Co., Carnegie Bldg.
National Tube Co.
Pa., South Bethlehem
Bethlehem Steel Co.

Columns, Rectifying

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Pa., Erie
Jarecki Mfg. Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Combustion Apparatus

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
*Schaar & Co., 1025 S. State St.
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Combustion Appliances

Ill., Chicago
Dwight Mfg. Co., 12-14 S. Jefferson St.

Combustion Boats

Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., Murray and Austin Aves.
N. Y., New York City
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Eimer & Amend, 205-211 3d Ave.
Sidio Co. of America, Inc., 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Ohio, Zanesville
Ohio Pottery Co.
Pa., Malvern
Bishop & Co., Platinum Works, J.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Crucible Steel Co. of America, 30th and Smallman Sts.
Scientific Materials Co., 711-719 Forbes St.

Combustion Boats, Alundum

Mass., Worcester
Norton Co., New Bond St.

Combustion Tubes, (*Consult Combustion Boats*)

Comparators

Ill., Chicago
*Gaertner & Co., Wm., 5345 Lake Park Ave.

Comparators—*cont.*

N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th Sts.
N. Y., Rochester
Bausch & Lomb Optical Co.

Compensators, Automatic

Ohio, Cleveland
Electric Controller & Mfg. Co., 2698 E. 79th St.

Compounds, Acid Proofing

Conn., Stamford
Celluloid Zapon Co.
Ill., Chicago
Redmanol Products Co., 636 W. 22d St.
Mich., Detroit
Trus-Con Laboratories
N. J., Bloomfield
Condensite Co. of America
N. Y., New York City
Celluloid Zapon Co., 200 5th Ave.
Certain-teed Products Co., 314 N. Broadway
Du Pont Chemical Works, 120 Broadway
General Bakelite Co., 2 Rector St.
Hirsh & Schofield, Inc., 50 Broad St.
Toch Brothers, 320 5th Ave.
Ohio, Cleveland
Sherwin-Williams Co.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Rd.

Compounds, Cable

Mo., St. Louis
Dielectric Mfg. Co., 224 S. Vandeventer Ave.
N. Y., Schenectady
General Electric Co.

Compounds, Case Hardening

N. Y., New York City
Binney & Smith Co., 81 Fulton St.
Buchanan Chemical Co., 121 E. Pearl St.
Holz, Herman A., 3 Madison Ave.

Compounds, Cement

N. Y., New York City
Certain-teed Products Corp., 314 N. Broadway

Compounds, Coloring

Conn., Stamford
Celluloid Zapon Co.
N. Y., New York City
Celluloid Zapon Co., 200 5th Ave.

Compounds, Cutting

N. Y., New York City
Oakley Chemical Co., 40 Thomas St.

Compounds, Grinding

N. Y., New York City
Oakley Chemical Co., 40 Thomas St.

Compounds, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph

Compounds, Hardening (*see Compounds, Case Hardening*)

Compounds, Impregnating

Ohio, Cleveland
Sherwin-Williams Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Compounds, Insulating

Ill., Chicago
Redmanol Products Co.. 636 W. 22nd St.
Mo., St. Louis
Dielectric Mfg. Co., 224 S. Vandeventer Ave.
N. J., Bloomfield
Condesnite Co. of America
N. Y., New York City
Certain-teed Products Co., 314 N. Broadway
General Bakelite Co., 2 Rector St.
Johns-Manville Co., Madison Ave. and 41st Sts.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Compounds, Moulding

Conn., Stamford
Celluloid Zapon Co.
Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22d St.
N. J., Bloomfield
Condesnite Co. of America
N. Y., New York City
Celluloid Zapon Co., 200 5th Ave.
General Bakelite Co., 2 Rector St.

Compounds, Plating

N. J., Bloomfield
Condesnite Co. of America
N. Y., New York City
Binney & Smith Co., 81 Fulton St.
Klipstein & Co., A., 644 Greenwich St.

Compounds, Preservative

Conn., Stamford
Celluloid Zapon Co.

Compounds, Preservative—*cont.*

Ill., Chicago
Redmanol Products Co., 636 W. 22d St.
Mich., Detroit
Trus-Con Laboratories
N. J., Bloomfield
Condesnite Co. of America
N. Y., New York City
Binney & Smith Co., 81 Fulton St.
Celluloid Zapon Co., 200 5th Ave.
Certain-teed Products Corp., 314 N. Broadway
Du Pont Chemical Co., 120 Broadway
General Bakelite Co., 2 Rector St.
Gutta Percha & Rubber Mfg. Co., 126 Duane St.
Johns-Manville Co., Madison Ave. and 41st St.
Klipstein & Co., A., 644 Greenwich St.
Toch Brothers, 320 5th Ave.
Ohio, Cleveland
Sherwin-Williams Co.
Pa., Philadelphia
Harrison Works, 35th St. and Grays Ferry Rd.

Compounds, Tank Lining

Ill., Chicago
Redmanol Products Co., 636 W. 22d St.
N. Y., New York City
General Bakelite Co., 2 Rector St.
Toch Brothers, 320 5th Ave.

Compounds, Tempering (*see Compounds, Case Hardening*)

Compounds, Transformer

Ill., Chicago
Redmanol Products Co., 636 W. 22d St.
N. Y., New York City
General Bakelite Co., 2 Rector St.

Compounds, Waterproof

Ill., Chicago
Redmanol Products Co., 636 W. 22d St.
Mich., Detroit
Trus-Con Laboratories
N. J., Bloomfield
Condesnite Co. of America
N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Celluloid Zapon Co., 200 5th Ave.
Certain-teed Products Corp., 314 N. Broadway
General Bakelite Co., 2 Rector St.
Gutta Percha & Rubber Mfg. Co., 126 Duane St.
Toch Brothers, 320 5th Ave.
Ohio, Cleveland
Sherwin-Williams Co.
Pa., Philadelphia
Harrison Works, 35th and Grays Ferry Rd.
Conn., South Norwalk
Nash Engineering Co.

Compressors, Air

Ill., Chicago
Central Scientific Co., 460 E. Ohio St
Chicago Pneumatic Tool Co., Fisher Bldg.
Fairbanks-Morse & Co., 902 S. Wabash Ave.
Sullivan Machinery Co., 122 S. Michigan Ave.
Sullivan Machinery Co., People's Gas Bldg.
Machinery Utilities Co., Inc., 501 5th Ave.
Worthington Pump & Machinery Corp., 115 Broadway
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Machinery Utilities Co., Inc., 501 5th Ave.
Worthington Pump & Machinery Corp., 115 Broadway
Eimer & Amend, 205-211 3d Ave.
Palo Co., 50 E. 41st St.
N. Y., Schenectady
General Electric Co.
Ohio, Cleveland
Bishop-Babcock-Becker Co.
U. S. Air Compressor Co.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Pa., Chester
Wetherill & Co., R. A.
Pa., Philadelphia
Otto Gas Engine Works
Pa., Pittsburgh
Westinghouse Air Brake Co.
Wis., Milwaukee
National Brake & Electric Co.
Allis-Chalmers Co.

Compressors, Air, Electric

Md., Baltimore
Black & Decker Mfg. Co., 105 S. Calvert St.

Compressors, Air, Pneumatic; driven

Ill., Chicago
Chicago Pneumatic Tool Co., 343 S. Dearborn Ave.

Compressors, Ammonia

Conn., South Norwalk
Nash Engineering Co.
Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie St.
N. J., New Brunswick
Brunswick Refrigerating Co.
N. Y., New York City
De La Vergne Machine Co.
Worthington Pump & Machinery Corp., 115 Broadway
Wis., Milwaukee
Allis-Chalmers Co.
Vilter Mfg. Co., 824 Clinton St.

Compressors, Centrifugal

N. J., Trenton
De Laval Steam Turbine Co.

Compressors, Gas

Conn., South Norwalk
Nash Engineering Co.
Ill., Chicago
Burdett Mfg. Co., St. Johns Ct. and Fulton St.
Chicago Pneumatic Tool Co., Fisher Bldg.
Sullivan Machinery Co., People's Gas Bldg.
Mich., Battle Creek
Union Steam Pump Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 113 Broadway
Wis., Milwaukee
Allis-Chalmers Co.

Compressors, Lead, (Steam Jet)

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Compressors, Tube

Ingersoll-Rand Co., 111 Broadway

Concentrators, Acid

Cal., San Francisco
Senn Concentrator Co., First Nat. Bank Bldg.
Ga., Atlanta
Pratt Engineering & Machine Co.
Ill., Chicago
Swemson Evaporator Co., 945 Monadnock Bldg.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Newark
Acid Proof Iron Product Co., 41 Herman St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., New York City
Duriron Casting Co., 90 West St.
General Ceramics Co., 50 Church St.
Kalbperry Corp., 31 Union Sq., W.
Machinery Utilities Co., Inc., 501 5th Ave.
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
N. C., Charlotte
Chemical Construction Co.
Ohio, East Akron
Knight, Maurice A.
Ohio, Elyria
Elyria Enameled Product Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Concentrators, Dry

Mass., Boston
Huff Electrostatic Separator Co., 60 India St.

Concentrators, High

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Concentrators, Ore

Cal., Los Angeles
Llewellyn Iron Works, N. Main and Redondo Sts.
Cal., Oakland
Senn Concentrator Co.
Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop Sts.
Mine & Smelter Supply Co., Blake and 17th Sts.
Mass., Boston
Huff Electrostatic Separator Co., 60 India Sq.
N. Y., New York City
Dorr Co., The
Mine & Smelter Supply Co., 42 Broadway

Concentrators, Ore—*Cont.*

N. Y., New York City—cont.
Traylor Engineering Co., 30 Church St.
Worthington Pump & Machinery Corp., 113 Broadway
Pa., Allentown
Traylor Engineering Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Condensers, Acid

N. J., Newark
Acid Proof Iron Products Co., 47 Herman St.
N. Y., New York City
Duriron Castings Co., 90 West St.
Sidio Co. of America, 37-39 Murray St.
Stevens Brothers, 928 Singer Bldg.
Thermal Syndicate, Ltd., 50 E. 41st St.

Condensers, Ammonia

Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie St.
Neb., Omaha
Baker Machine Co.
N. Y., New York City
De La Vergne Machine Co.
Pa., York
York Mfg. Co.

Condensers, Barometric

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Kellogg Co., The M. W., 90 West St.
Worthington Pump & Machinery Corp., 113 Broadway
Pa., Philadelphia
Stokes Machine Co., F. J.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Condensers, Copper

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester St.
Ohio, Cincinnati
American Copper & Brass Works, The
Pa., North Philadelphia
Stokes Machine Co., F. J.

Condensers, Distilled Water

Ill., Chicago
Mohr & Son, John, 349-359 W. Illinois St.
Ind., Indianapolis
Castle Refrigerating Machine Co.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Pa., Pittsburgh
Marshall Foundry Co., 28th and Railroad St.

Condensers, Distilling

N. Y., Buffalo
Ross Heater & Mfg. Co., Inc., 504 Mutual Life Bldg.

Condensers, Glass

N. Y., Rochester
Pfaudler Co., Cutler Bldg.
Ohio, Elyria
Elyria Enameled Products Co.

Condensers, Jet

Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
Wis., Milwaukee
Allis-Chalmers Co.
N. J., East Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ingersoll-Rand Co., 111 Broadway
Worthington Pump & Machinery Corp., 113 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Vilter Mfg. Co., 824 Clinton St.

Condensers, Oil Refining

Ohio, Niles
Standard Boiler & Plate Iron Co.

Condensers, Reflux

Mass., Boston
Badger & Sons Co., R. E., 63 Pitts St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
N. Y., New York City
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Thermal Syndicate Ltd., 50 E. 41st St.

Condensers, Steam (*see Condensers, Jet*)

Condensers, Surface (*see also Condensers, Jet*)

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Ross Heater & Mfg. Co., Inc., 504 Mutual Life Bldg.

Condensing Apparatus, Laboratory

Mass., Boston
Lummus Co., The Walter E., 173 Milk St.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
General Ceramics Co., 50 Church St.

Condensers, Vacuum

Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Devine Co., J. P.
Pa., Philadelphia
Stokes Machine Co., F. J.

Cones, Filter, Alundum

Mass., Worcester
Norton Co.

Cones, Filter

N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th St.
General Ceramics Co., 50 Church St.
N. J., Newark
Baker & Co., Inc.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Consistometers

N. Y., New York City
Chatillon & Sons, John, 85-93 Cliff St.

Constant Temperature Apparatus

Ill., Chicago
Central Scientific Co., 360 E. Ohio St.
N. J., Newark
Thermo Electric Instrument Co.

Contacts

N. Y., Long Island City
Commercial Research Co.
N. Y., Niagara Falls
Acheson Graphite Co.
International Acheson Graphite Co.
N. Y., Schenectady
General Electric Co.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Containers

N. Y., New York City
American Can Co., 120 Broadway
N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Containers, Acid Resisting, Enameled.

N. Y., New York City
Mott Iron Works, J. L., 118 5th Ave.

Containers (for Heat Treatment Processes)

N. J., Garwood
Garwood Bronze & Iron Works

Containers, Iron

N. Y., New York City
Mott Iron Works, J. L., 118 5th Ave.

Containers, Pressed Steel, Glass Enameled

N. Y., Rochester
Pfaudler Co., The

Containers, Pressed Steel, Lead Lined

N. Y., New York City
Pfaudler Co., The, 110 W. 40th St.

Containers, Steel, for Lead, Chemicals and Mixed Paints

Mich., Detroit
Detroit Range Boiler Co., 60 724th St.
Pa., Pittsburgh
Pittsburgh Can Co.

Control Equipment, Electric

N. Y., Schenectady
General Electric Co.

Control Systems, Remote

Ind., Fort Wayne
Bowser & Co., Inc., S. F.

Control, Thermostatic

N. Y., Albany
Consolidated Car Heating Co.

Controllers

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.

Controllers, Automatic

Ill., Rockford
Eclipse Fuel Engineering Co.

Controllers, Electric

N. Y., Schenectady
General Electric Co.
Ohio, Cleveland
Electric Controller & Mfg. Co., 2698 E. 79th St.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Wis., Milwaukee
Industrial Controller Co., 900 Greenbush St.

Controllers, Heat, Automatic

N. Y., New York City
American Gas Furnace Co., 24 John St.

Controllers, Evaporated Milk

Ill., Chicago
Mojonnier Bros. Co., 833 W. Jackson Blvd.

Controllers, Temperature

Mass., Foxboro
Foxboro Co., Inc.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 33d St. and 3d Ave.
N. Y., Rochester
Taylor Instrument Co., 95 Ames St.
Pa., Philadelphia
Brown Instrument Co.

Converters, Copper

Cal., San Francisco
Union Iron Works Co., 311 California Ave.
Colo., Denver
Colorado Iron Works Co.
N. J., Burlington
United States Cast Iron Pipe & Foundry Co.
N. Y., New York City
MacGovern & Co., Inc., 114 Liberty St.
Worthington Pump & Machinery Corp., 113 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Converters, Electric

Cal., San Francisco
Union Iron Works Co., 311 California Ave.
N. J., Burlington
United States Cast Iron Pipe & Foundry Co.
N. Y., New York City
MacGovern & Co., Inc., 114 Liberty St.
N. Y., Schenectady
General Electric Co.
Ohio, Springfield
Robbins & Myers Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Converters, Steel

Ill., Harvey
Whiting Foundry & Equipment Co.
N. J., Burlington
United States Cast Iron Pipe & Foundry Co.
N. Y., New York City
MacGovern & Co., Inc., 114 Liberty St.
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.
Ohio, Youngstown
Pollock Co., W. B.
Pa., Sharon
Petroleum Iron Works Co.

Conveying Machinery

Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
American Conveyor Co., 6611 Drexel Ave.
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Dull Co., Raymond W., 111 W. Washington St.
Link-Belt Co., W. 39th and Stewart Ave.
Raymond Bros. Impact Pulverizer Co.
Weller Mfg. Co., 1820-1856 N. Kostner Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Ill., Decatur
Union Iron Works
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Lamson Co., 100 Boylston St.
Sturtevant Mill Co., Harrison Sq.
Mich., Bay City
Bay City Foundry & Machine Co.
Garland Co., M.
Mich., Detroit
American Blower Co.
Mich., Saginaw
Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.
Mo., St. Louis
Alvey Mfg. Co.
N. Y., New York City
Conveying Weigher Co., 90 West St.
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.
N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.
Ohio, Cincinnati
Alvey-Ferguson Co.

Conveying Machinery—*cont.*

Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio Columbus
Jeffrey Mfg. Co.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Philadelphia
Beaumont Co., R. H., Drexel Bldg.
Philadelphia Tramrail Co., Front and Tusculum Sts.
Specialty Engineering Co., Allegheny and Trenton Aves.
Wis., Milwaukee
Chain Belt Co., 734 Park St.

Conveying Systems

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Conveying Systems, Pneumatic

Mich., Saginaw
Allington & Curtis Mfg. Co., 402 Holden St.
N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Conveyors, Apron

Ill., Aurora
Stephens-Adamson Mfg. Co.
Mass., Boston
Lamson Co., 100 Boylston St.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Tiffin
Wenster Mfg. Co.

Conveyors, Apron, Power

Mo., St. Louis
Alvey Mfg. Co.

Conveyors, Bag

Ill., Chicago
Link-Belt Co., W. 39th and Stewart Ave.
Mass., Boston
Lamson Co., 100 Boylston St.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Conveyors, Belt

Del., Wilmington
Walker & Elliot, Inc.
Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Weller Mfg. Co., 1820-1856 N. Kostner Ave.
Mass., Boston
Lamson Co., 100 Boylston St.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Mo., St. Louis
Alvey Mfg. Co.
N. Y., New York City
Buchanan Co., Inc., C. G., 90 West St.
Robbins Conveying Belt Co., Park Row Bldg.
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Akron
Goodrich Co., B. F.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Philadelphia
Haslett Spiral Chute Co., 1937 W. Tioga St.

Conveyors, Boosters

Mass., Boston
Lamson Co., 100 Boylston St.

Conveyors, Bucket, Apron

Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Weller Mfg. Co., 1820-1856 N. Kostner Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mass., East Boston
Mead Morrison Mfg. Co.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.
N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Wis., Milwaukee
Chain-Belt Co., 734 Park St.

Conveyors, Chain

Ill., Chicago
Caldwell & Son Co., W. H., 17th St. and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Weller Mfg. Co., 1822 N. Kostner Ave.

Conveyors, Chain—*cont.*

Mass., Boston
Lamson Co., 100 Boylston.
Mo., St. Louis
Alvey Machinery Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Tiffin
Webster Mfg. Co.

Conveyors, Coal (*see Conveyors, Ore*)

Conveyors, Cottonseed Oil Machinery

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Conveyors, Flight

Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Caldwell & Son Co., W. H., 17th St. and Western Ave.
Ohio, Columbus
Bartlett & Snow Co., C. O.
Ohio, Tiffin
Webster Mfg. Co.

Conveyors, Gravity

Ill., Chicago
Caldwell & Son Co., W. H., 17th St. and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Mass., Boston
Lamson Co., 100 Boylston St.
Mo., St. Louis
Alvey Machinery Co.
Ohio, Columbus
Jeffrey Machine Co.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Ellwood City
Mathews Gravity Carrier Co.
Pa., Philadelphia
Haslett Spiral Chute Co., 1937 W. Tioga St.

Conveyors, Helicoid

Del., Wilmington
Walker & Elliott, Inc.

Conveyors, Link Belt

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Conveyors, Lumber Gravity

Mo., St. Louis
Alvey Mfg. Co.

Conveyors, Ore

Colo., Denver
Colorado Iron Works Co.
Ill., Chicago
Caldwell & Son Co., W. H., 17th St. and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Weller Mfg. Co., 1822 N. Kostner Ave.
Mass., East Boston
Mead-Morrison Mfg. Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Conveyors, Pan (*see Conveyors Bucket Apron*)

Conveyors, Portable

Ill., Chicago
Brown Portable Elevator Co., 10 S. La Salle St.
Link-Belt Co., W. 39th St. and Stewart Ave.
Ohio, Columbus
Jeffrey Mfg. Co.

Conveyors, Power Driven Roller

Mass., Boston
Lamson Co., 100 Boylston St.

Conveyors, Screw

Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Weller Mfg. Co., 1820-1856 N. Kostner Ave.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Tiffin
Webster Mfg. Co.
Wis., Milwaukee
Chain-Belt Co., 734 Park St.

Conveyors, Scraper

Ohio, Tiffin
Webster Mfg. Co.

Conveyors, Slat

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Conveyors, Special

Mass., Boston
Lamson Co., 100 Boylston St.
Mo., St. Louis
Alvey Mfg. Co.

Conveyors, Sweep-off

Mass., Boston
Lamson Co., 100 Boylston St.

Conveyors, Traveling Pan

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Conveyors, Tray (Automatic)

Mass., Boston
Lamson Co., 100 Boylston St.

Conveyors, Vibrating

N. Y., New York City
Hepworth Co., S. S., 2 Rector St.

Cookers (*see Digestors*)

Coolers, Acid

Mass., Boston
Badger & Sons Co., E. B.
Lummus Co., Walter E.
N. Y., New York City
General Ceramics Co., 50 Church St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Ohio, East Akron
Knight, Maurice A.

Coolers, Ammonia

N. Y., New York
De La Vergne Machine Co.
Pa., York
York Mfg. Co.
Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Coolers, Brine

Pa., Waynesboro
Frick Co.
N. Y., New York City
De La Vergne Machine Co.
Pa., York
York Machine Co.
Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Coolers, Acid

N. Y., New York City
General Ceramics Co., 50 Church St.
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Ohio, East Akron
Knight, Maurice A.

Coolers, Air

N. Y., Buffalo
Buffalo Foundry & Machine Co.
N. Y., New York City
Worthington Pump & Machinery Corp.

Coolers, Ammonia (*see Coolers, Brine*)

Neb., Omaha
Baker Ice Machine Co.
N. Y., New York City
De La Vergne Machine Co.
Pa., York
York Mfg. Co.
Wis., Milwaukee
Vilter Mfg. Co.

Coolers, Charcoal

Mich., Muskegon
Muskegon Boiler Works

Coolers, Generator

N. Y., New York City
Carrier Air Conditioning Co., 39 Courtlandt St.

Coolers, Glass Enameled

N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Coolers, Oil

N. Y., New York City
American Spray Co., 26 Cortlandt St.

Coolers, Rotary

Ohio, Alliance
Reeves Bros. Co., 338 Rush St.

Coolers, Water

N. Y., New York City
Cordley & Hayes, 7 Leonard St.

Cooling Ponds

N. Y., Buffalo
Carrier Air Conditioning Co., 490 Broadway

Cooling Ponds, Spray

N. Y., New York City
American Spray Co., 26 Cortlandt St.
Pa., Philadelphia
Schutte & Koerting Co., 12th and Thompson Sts.

Cooling Systems

Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
Devine Co., J. P.
Sowers Mfg. Co.
Zaremba Co., Niagara Life Ins. Co. Bldg.
N. Y., New York City
Carrier Air Conditioning of America, 490 Broadway
De La Vergne Machine Co.
General Ceramics Co., 50 Church St.
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Sanborn Evaporator Co., 50 Broad St.
Sidio Co. of America, 37 Murray St.
Van Emden Co., H., 145 W. 45th St.
Therman Syndicate, Ltd., 50 E. 41st St.
Pa., Philadephia
Stokes Machine Co., F. J.

Coping Machines

Ill., Moline
Williams, White & Co.
N. Y., New York City
Niles-Bement-Pond Co., 111 Broadway
Ohio, Hamilton
Long & Allstatter Co.

Copper Equipment

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Devine Co., J. P.
Zaremba Co., Niagara Life Ins. Co. Bldg.
N. Y., New York City
Gerdes & Co., Inc., 40 Church St.
Hungerford Brass & Copper Co., U. T. 84 La Fayette St.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Cord, Waterproof

N. Y., Auburn
Columbian Rope Co., 3050-75 Genesee Ave.
Ohio, Akron
Goodrich Co., B. F.
R. I., Providence
Davol Rubber Co.

Cores, Armature and Magnet

Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.

Cores, Electric Furnaces, Alundum

Mass., Worcester
Norton Co., New Bond St.

Cork Board

Minn., Winona
Union Fibre Co.

Corkboard, Insulation, Nonpareil

Pa., Pittsburgh
Armstrong Cork & Insulating Co., 122 24th St.

Cork Machinery

Mich., Saginaw
Werner & Pfleiderer, Inc.
Pa., Pittsburgh
Armstrong Cork & Insulation Co., 122 24th St.

Corks, Bottle Crown

Md., Baltimore
Crown Cork & Seal Co.
N. Y., Brooklyn
Mundet & Son, L., King and Ferris St.
N. Y., New York City
Farrell, W. J., 115 Maiden Lane

Corks, Brewers and Bottlers

Conn., Norwich
Thames Cork Co.
Md., Baltimore
Crown Cork & Seal Co.
Pa., Pittsburgh
Armstrong Cork Co., 23d and Allegheny Ave.

Corks, Chemists

Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.

Corks, Chemists—*cont.*

Pa., Pittsburgh
Armstrong Cork Co., 23d and Alleghany Ave.

Corks, Jar

Pa., Pittsburgh
Armstrong Cork Co., 23d and Alleghany Ave.

Corks, Rubber

Conn., Bridgeport
Canfield Rubber Co., 129 Garden St.
Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
N. Y., New York City
N. Y. Belting & Packing Co., 91 Chambers St.
Ohio, Cleveland
Cleveland Rubber Co., Lisbon Road
Pa., Philadelphia
Whitall-Tatum & Co., 410 Race St.
*Thomas Co., Arthur H., 238 W. Washington Sq.
R. I., Providence
Davol Rubber Co.

Corkwood

N. Y., New York City
Farrell, W. J., 115 Maiden Lane

Corundum Wheels (*see Grinding Wheels*)

Cottonseed Oil Machinery

Ala., Birmingham
Continental Gin Co.
Del., Wilmington
Pusey & Jones Co.
Ga., Atlanta
Atlanta, Utility
Ill., Chicago
Kaestner & Hecht Co.
Link-Belt Co., W. 39th St. and Stewart Ave.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Dayton
Platt Iron Works Co.
Texas, Dallas
Murray Co.

Counterbores

N. Y., New York City
Pratt & Whitney Co., 111 Broadway
Ohio, Cleveland
Cleveland Twist Drill Co.

Counters, Indication

Mass., Athol
Starrett Co.
Mass., Boston
Crosby Steam Gauge & Valve Co.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
U. S. Gauge Co., 67 Wall St.
N. Y., Rochester
Knowlton Co., M. D.

Couplings, Brass

N. Y., New York City
Wilfert Co., John, 259 Broadway
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverly Sts.
Pa., Pittsburgh
National Tube Co.

Couplings, Flexible

Ill., Chicago
Caldwell & Son Co., W. H., 17th St. and Western Ave.
National Hose Coupling Co., People's Gas Bldg.
N. J., Plainfield
Rubber Insulated Metals Corp.
N. Y., New York City
Smith-Serral Co., Inc., West and Cedar Sts.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Pittsburgh
Jones & Laughlin Steel Co.

Couplings, Hose

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Mass., Boston
Claflin Co., C. A., 161 High St.
N. Y., Brooklyn
Bliss Co., E. W., 19 John St.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Wilfert Co., John, 259 Broadway

Couplings, Shaft

Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Fairbanks-Morse & Co., 900 S. Wabash Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Philadelphia
Sellers & Co., Inc., Wm., 1600 Hamilton St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Coverings, Cork

Pa., Pittsburgh
Armstrong Cork & Insulation Co., 122 24th St.

Coverings, Asbestos

Ill., Chicago
Crane Co., 836 S. Michigan Ave.
N. Y., New York City
Johns-Manville Co., Madison Ave. and 41st St.
Ohio, Lockland
Carey Mfg. Co., Philip
Pa., Ambler
Keasbey & Mattison Co.
Pa., Erie
Watson Co., H. F.
Pa., Franklin
Franklin Mfg. Co.

Coverings, High Pressure

Pa., Pittsburgh
Armstrong Cork & Insulation Co., 122 24th St.

Covers, Assay Clay

N. J., Jersey City
Dixon Crucible Co., Joseph

Covers, Glass

N. Y., Corning
Corning Glass Works
N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co.

Covers, Assay Sand

N. J., Jersey City
Dixon Crucible Co., Joseph

Covers, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph

Covers, Stoneware

N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.

Covers, Tower, Stoneware

N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.

Cranes, Electric

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mich., Detroit
Northern Engineering Works
N. Y., New York City
Niles-Bement-Pond Co., 111 Broadway
Ohio, Cleveland
Brown Hoisting Machinery Co.

Cranes, Grab Bucket

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mich., Detroit
Northern Engineering Works

Cranes, Locomotive

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mich., Bay City
Industrial Works
Ohio, Cleveland
Brown Hoisting Machinery Co.

Creosoting Apparatus

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Devine Co., J. P.

Crucible Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Crucibles, Acid Proof

N. Y., New York City
Duriron Castings Co., 90 West St.

Crucibles, Alundum

Mass., Worcester
Norton Co., New Bond St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.

Crucibles, Black Lead (*see Crucibles, Graphite*)

Crucibles, Carbon

Ohio, Cleveland
National Carbon Co., Madison and Highland Aves.

Crucibles, Clay

Colo., Denver
Denver Fire Clay Co.
N. J., Jersey City
Dixon Crucible Co., Joseph

Crucibles, Clay—*cont.*

N. Y., New York City
Mine & Smelter Supply Co., 42 Broadway
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Utah, Salt Lake City
Utah Fire Clay Co.

Crucible, Clay Lined

Pa., Pittsburgh
McCullough-Dalzell Crucible Co.

Crucibles, Copper

Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.
Pa., Pittsburgh
McCullough-Dalzell Crucible Co.

Crucibles, Fused Silica

N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.

Crucibles, Graphite

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Conn., Bridgeport
Bridgeport Crucible Co.
Mo., St. Louis
*Heil Chemical Co., Henry, 216 S. 4th St.
N. J., Jersey City
Dixon Crucible Co., Joseph
Gautier & Co., J. H.
N. Y., Niagara Falls
International Acheson Graphite Co.
N. Y., New York City
Berge, J. & H., 95 John St.
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Goeble & Co., J., 129 Maiden Lane
Sidio Co. of America, Inc., 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Philadelphia
Ross-Tacony Crucible Co., Robbins and Mulner Sts.
Thomas Co., Arthur H., W. Washington Sq.
Pa., Carbondale
Griebel Instrument Co.
Pa., Pittsburgh
McCullough-Dalzell Crucible Co.

Crucibles, Graphite Brazing

N. J., Jersey City
Dixon Crucible Co., Joseph

Crucibles, Metal Melting

Conn., Bridgeport
Bridgeport Crucible Co.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. J., Trenton
Bartley Crucible Co., J.
N. Y., New York City
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Philadelphia
Ross-Tacony Crucible Co., Robbins and Milner, Tacony
Pa., Pittsburgh
McCullough-Dalzell Crucible Co.

Crucibles, Platinum

Mo., St. Louis
*Heil Chemical Co., Henry, 216 S. 4th St.
N. J., Newark
American Platinum Works, 225 New Jersey Railroad Ave.
Baker & Co., Murray and Austin Sts.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Malvern
Bishop & Co., Platinum Works, J.
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.

Crucibles, Porcelain

Colo., Golden
Herold China & Pottery Co.
Ohio, Columbus
Laboratory Supply Co.
Ohio, Zanesville
Ohio Pottery Co.

Crucibles, Porous, Filtering

Pa., Pittsburgh
Crucible Steel Co. of America

Crucibles, Sand

N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Goeble & Co., J., 129 Maiden Lane

Crucibles, Sheet Iron

Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.

Crucibles, Sheet Nickel

Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.

Crushers, Assayers

Cal., San Francisco
Braun-Knecht-Heimann Co., 576 Mission St.
N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Mine & Smelter Supply Co., 42 Broadway
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Crushers, Cinder

N. Y., New York City
Hardinge Conical Mill Co., 120 Broadway

Crushers, Coal

Cal., Los Angeles
Lane Mill & Machinery Co., 106 W. 3d St.
Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Raymond Bros. Impact Pulverizer Co.
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Bradley Pulverizer Co.
Sturtevant Mill Co., Harrison Sq.
Mass., East Boston
Mead-Morrison Mfg. Co.
N. Y., Brooklyn
Moussette Co., Inc., O. J., 22-26 Clay St.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Aero Pulverizer Co., 120 Broadway
Eimer & Amend, 205-211 3d Ave.
K. B. Pulverizer Co., Inc., 86 Worth St.
Worthington Pump & Machinery Corp., 113 Broadway
N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Philadelphia
Pennsylvania Crusher Co., Stephen Girard Bldg.

Crushers, Coke (*see Crushers, Coal*)

Crushers, Hammer

Ill., Chicago
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.

Crushers, Hinged Hammer

Mass., Boston
Sturtevant Mill Co.

Crushers, Jaw

Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Wis., Milwaukee
Allis-Chalmers Co.

Crushers, Laboratory

Cal., San Francisco
Braun-Knecht-Heimann Co., 576 Mission St.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Lenz Apparatus Co., Inc., 18 E. 16th St.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.

Crushers, Ore and Rock (*see also Crushers, Coal*)

Crushers, Phosphate Rock (*see Crushers, Coal*)

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Crushers, Rock (*see Crushers, Coal*)

Crushers, Roll

Mass., Boston
Sturtevant Mill Co.
Pa., Philadelphia
Pennsylvania Crusher Co., Stephen Girard Bldg.

Crushers, Rotary

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Ohio, Columbus
Jeffrey Mfg. Co.

Crushers, Single Roll

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Philadelphia
Pennsylvania Crusher Co., Stephen Girard Bldg.

Crushers, Slive

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Crushers, Wood Pulp

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
N. Y., Carthage
Carthage Machine Co.

Crushing Machinery (*see Crushers, Specific Headings*)

Crystallizers, Sugar

Del., Wilmington
Posey & Jones Co.
Ill., Batavia
Sperry & Co., D. R.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Zaremba Co., Morgan Bldg.
N. Y., New York City
General Ceramics Co., 50 Church St.
N. Y., Rochester
Pfaudler Co., The
Pa., Philadelphia
Stokes Machine Co., F. J.
Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Crystallizers, Vacuum

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Culture Propagating Apparatus

Ill., Chicago
Mojonnier Bros. Co., 833 W. Jackson Blvd.

Cupels, Clay

N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Mine & Smelter Supply Co., 42 Broadway

Cupels, Sand

N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Mine & Smelter Supply Co., 42 Broadway

Cupel Machines

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.

Cups, Alcohol

Ohio, Cambridge
Cambridge Glass Co.

Cups, Benzine

Ohio, Cambridge
Cambridge Glass Co.

Cups, Leather

N. Y., New York City
Schieren Co., Charles A., 30-38 Ferry St.

Cups, Oil and Grease

N. Y., Buffalo
Sherwood Mfg. Co., 1702-12 Elmwood Ave.
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Cups, Paper

Mass., Boston
American Water Supply Co., 251 Causeway St.

Cushions

Ohio, Akron
Goodrich Co., B. F.
Ohio, Youngstown
Republic Rubber Co.
Pa., Jeannette
Pennsylvania Rubber Co.
Pa., Philadelphia
Quaker City Rubber Co.
R. I., Providence
Davol Rubber Co.

Cutters, Cool

Ill., Rockford
Ingersoll Milling Machine Co.
Mass., Athol
Union Twist Drill Co.
Mass., Boston
Becker Milling Machine Co., Hyde Park
Mass., New Bedford
Morse Twist Drill & Machine Co.

Cutters, Cool—*cont.*

Mich., Detroit
Detroit Twist Drill Co., 634-646 Fort West
National Twist Drill & Tool Co.
N. Y., New York City
Provost Engineering Corp., 220 Broadway
Ohio, Cleveland
Standard Tool Co.
Ohio, Toledo
Toledo Drill & Tool Co.
R. I., Providence
Brown & Sharpe Mfg. Co.

Cutters, Glass Tube

N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.

Cutters, Ore (*see Cutters, Coal*)

Cutters, Oxyacetylene

Mass., Boston
General Welding & Equipment Co., 107 Massachusetts Ave.

Cutters, Oxyhydrogen

Mass., Boston
General Welding & Equipment Co.. 107 Massachusetts Ave.

Cutters, Rotary

N. Y., New York City
Abbe Engineering Co., 220 Broadway
Beach-Russ Co., 220 Broadway

Cutting Outfits (*see Welding Apparatus*)

Cyanide Machinery

Cal., Los Angeles
Llewellyn Iron Works, No. Main and Redondo Sts.
Pacific Tank & Pipe Co.
Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Pacific Tank & Pipe Co., 5th and Bryant Sts.
Redwood Mfg. Co., Hobart Bldg.
Western Pipe & Steel Co. of Cal., 444 Market St.
Colo., Denver
Colorado Iron Works Co.
Stearns-Roger Mfg. Co., 1718 California St.
Ill., Chicago Heights
Chalmers & Williams, Inc.
Md., Maryland
Bartlett-Hayward Co.
N. Y., New York City
Dorr Co., The, 17 Battery Pl.
Mine & Smelter Supply Co., 42 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Cyanide Plants (*see Cyanide Machinery*)

Md., Baltimore
Bartlett-Hayward Co.

Cyanide Process

N. Y., New York City
Dorr Co., The, 17 Battery Pl.
Moore Filter Co., 115 Broadway

Cyclometers

Conn., Hartford
Veeder Mfg. Co.
Pa., Philadelphia
Brown Instrument Co., Wayne and Windrom Sts.

Cylinders, Acetylene

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Cylinders, Ammonia

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.
Pa., Pittsburgh
National Tube Co., Frick Bldg.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Cylinders, Chlorine

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Cylinders, Cast Iron

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Winchester Ave.
N. Y., New York City
Duriron Castings Co., 90 West St.
Pa., Fullerton
Lehigh Foundry Co.
Pa., Pittsburgh
National Tube Co.

Cylinders, for Compressed Gases

Ill., Chicago
Burdett Mfg. Co., St. Johns Ct. and Fulton St.

Cylinders, for Compressed Gases—*cont.*

Pa., Philadelphia
Janney Steinmetz Co.
Pa., Pittsburgh
National Tube Co., Frick Bldg.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Cylinders, Glass

England, Birmingham
Belchers (Standley) & Mason, Ltd., Church St.
N. J., Millville
International Glass Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Coatesville
Coatesville Boiler Works
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.
Whitall-Tatum Co.
Pa., Pittsburgh
Macbeth Evans Glass Co.

Cylinders, Graduated

Ohio, Cambridge
Cambridge Glass Co.
Pa., Philadelphia
Whitall-Tatum Co.
Pa., Pittsburgh
Scientific Materials Co., 717 Forbes St.

Cylinders, Hydraulic

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Cylinders, Hydrogen

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Cylinders, Liquid Carbonic Acid Gas

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Cylinders, Oxygen

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Cylinders, Phosgen

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Cylinders, Steel

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Pa., Pittsburgh
National Tube Co., Frick Bldg.

Cylinders, Sulphur Dioxide

Ill., Chicago
Barber Creamery Supply Co.
Creamery Package Mfg. Co., 61–67 W. Kinzie St.
Nafis, Inc., Louis F., 544 Washington Blvd.
Ill., North Chicago
Davis-Watkins Dairyman's Mfg. Co.
Iowa, Cedar Rapids
Cherry Co., J. G.
Iowa, Waterloo
Associated Mfrs. Co.
Northey Mfg. Co
Mo., St. Louis
Barry-Wehmiller Machinery Co.
N. Y., Buffalo
Rice & Adams Corp.
N. Y., Little Falls
Burrell & Co., D. H.
N. Y., Long Island City
Jensen Creamery Machinery Co.
N. Y., New York City
De Laval Separator Co.
Eimer & Amend, 3d Ave., 18th to 19th St.
Welding Supply Co., Inc., 132 Nassau St.
Wisner Mfg. Co.
N. Y., Rochester
Pfaudler Co., The,
Ohio, Canton
Advance Dairy Machinery Co.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Philadelphia
Reid Creamery and Dairy Supply Co., A. H.
*Thomas Co., Arthur H., West Washington Sq.
Pa., West Chester
Sharples Separator Co.
Wis., Milwaukee
Milwaukee Dairy Supply Co.
Sommers & Sons Co.
Vilter Mfg. Co.

Decolorizers, Seleno

Pa., Pittsburgh
Vitro Mfg. Co., 720 Bessemer Bldg.

Decolorizers, Glass

Ind., Terre Haute
Turner Brothers Co.

Defecators (*see Sugar Machinery*)

Degreasing Plants

N. Y., New York City
Garrigue & Co., Wm., 154 Nassau St.
Pa., Philadelphia
Kutztown Foundry & Machine Co., 1421 Chestnut St.
Mass., Fall River
Scott & Co., Ernest
Mass., Cambridge
Little Co., Arthur D., Charles River Rd.

Dehumidifying Apparatus

Mich., Detroit
American Blower Co., 1400 Russell Ave.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
Carrier Engineering Corp., 39 Cortlandt St.

Delineascopes

N. Y., Buffalo
Spencer Lens Co., 442 Niagara St.

Demijohns Dispensers

N. Y., New York City
Cordley & Hayes, 7 Leonard St.
Ohio, Cleveland
Russ Co., 5700 Walworth Ave.
Ohio, Delphos
Delphos Mfg. Co.

Demijohns

Cal., San Francisco
Illinois-Pacific Glass Co., 15th and Folsom Ave.
Ill., Alton
Illinois Glass Co.
N. Y., New York City
White, Fred C., 241 Water St.
Ohio, Springfield
Ridgely Trimmer Co.

Denitrators

Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
N. Y., New York City
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 57 E. 41st St.

Deodorizers

Ill., Chicago
Allbright-Nell Co., 4023 Wentworth St.
N. Y., New York City
Kny-Scheerer Co., 404 W. 27th St.
West Disinfecting Co., Inc., 411 5th Ave.
Pa., Erie
American Sterilizer Co.

Derricks

Ill., Chicago
Chicago Bridge & Iron Works, Old Colony Bldg.
Mich., Detroit
Northern Engineering Works
Minn., Minneapolis
Minneapolis Steel & Machinery Co.
N. Y., Niagara Falls
Dobbie Foundry & Machine Co.

Desiccators

N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Pa., Carbondale
Griebel Instrument Co.

Destructors, Refuse

Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.
Ill., Kewanee
Kewanee Boiler Co.
N. Y., New York City
Griscom-Russell Co., 80 West St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., Pittsburgh
Ruud Mfg. Co.
Wis., Milwaukee
Kerner Incinerator Co.

Detinning

N. Y., New York City
Metal & Thermit Corp., 120 Broadway
Pa., Pittsburgh
Republic Chemical Co., Neville Island

Detonators

Del., Wilmington
Du Pont, De Nemour Powder Co., E. I.
Hercules Powder Co.
N. Y., New York City
Aetna Explosives Co., 12 Rector St.
*Behrend F., 54 Front St.
Pa., Emporium
Cameron Powder Mfg. Co.

Devulcanizers

Conn., Ansonia
Farrell Foundry & Machine Co.
Ohio, Akron
Biggs Boiler Works

Devices, Chemical Feed

Pa., Philadelphia
American Water Softener Co., 10th and Chestnut Sts.

Dewatering Apparatus

N. Y., New York City
Dorr Co., The, 17 Battery Pl.
Utah, Salt Lake City
United Filters Corp.

Dials

Conn., Waterbury
Waterbury Clock Co.
Del., Wilmington
Du Pont de Nemours Co., E. I.

Diaphragms, Acid Proof

Mass., Boston
Boston Belting Co.
N. Y., New York City
Gutta Percha & Rubber Mfg. Co., 127 Duane St.
N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.
Ohio, Akron
Goodrich Co., B. L.
Pa., Philadelphia
Omaha City Rubber Co.

Diaphragms, Acid Proof, Electro-Filtros

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Die Castings

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway

Dies, Clay

Ohio, Bucyrus
American Clay Machinery Co.

Dies, Soap

N. Y., Brooklyn
Houchin-Aiken Co.
N. Y., Buffalo
Sowers Mfg. Co.

Diffusers

N. Y., Rochester
General Filtration Co., Inc.
N. Y., Schenectady
General Electric Co.

Digesters

Del., Wilmington
Posey & Jones Co.
England, Deepfields, nr. Bilston, Staffs.
Cannon Iron Foundries, Ltd.
England, Stanningley, nr. Leeds
Leeds & Bradford Boiler Co., The
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Detroit
Detroit Heating & Lighting Co.
Mich., Saginaw
Werner & Pfleiderer, Inc.
Wickes Boiler Co.
N. J., Burlington
Stuart & Peterson Co.
United States Cast Iron Pipe & Foundry Co.
N. J., Carteret
Wheeler Condenser and Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Forge Co., 491 Broadway
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Zaremba Co., Morgan Bldg.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Eimer & Amend, 205-211 3d Ave.
Roos Sons, August, 429 E. 91st St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Fullerton
Lehigh Foundry Co.
Pa., Allentown
Traylor Eng. & Mfg. Co.

Digesters, Copper

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Forge Co., 491 Broadway
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Zaremba Co., Morgan Bldg.

Digesters, Copper—*cont.*

N. Y., New York City
Gerdes & Co., Inc., 40 Church St.
Ohio, Cincinnati
American Copper & Brass Works

Digestors, Glass Enameled

N. Y., Rochester
Pfaudler Co.

Digestors, Lead Lined

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.

Digesters, Welded Steel

N. Y., New York City
Kellogg Co., The M. W., 90 West St.

Digging Machinery

Ill., Chicago
Austin Mfg. Co., 910 S. Michigan Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
N. Y., New York City
Hayward Co., 50 Church St.
Ohio, Marion
Marion Steam Shovel Co.

Dimethylanilin Plants

Mass., Cambridge
Little Co., Arthur B., Charles River Rd.
N. Y., Buffalo
Buffalo Foundry & Forge Co.
Devine Co., J. P.

Dippers, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph

Direct Process for Ammonium Sulphate

Pa., Pittsburgh
Koppers Co., H.

Discs, Alundum, for Filtering

Mass., Worcester
Norton Co., New Bond St.

Discs, Graphite

N. Y., Niagara Falls
Acheson Graphite Co.
International Acheson Graphite Co.

Discs, for Valves

Mass., Boston
Boston Belting Co.
N. Y., New York City
Jenkins Brothers, 80 White St.
Ohio, Akron
Goodrich Co., B. F.
Pa., Philadelphia
Quaker City Rubber Co.

Dishes, Alundum, for Filtering and Ignition

Mass., Worcester
Norton Co., New Bond St.

Dishes, Crystallizing, Stoneware

N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Dishes, Earthenware Cooking

N. J., Flemington
Fulper Pottery Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cambridge
Guernsey Earthenware Co.

Dishes, Evaporating

Col., Golden
Herold China & Pottery Co.
Ill., Chicago
*Schaar & Co., 1025 S. State St.
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., 54 Austin St.
N. Y., Burlington
Stuart & Peterson Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Sidio Co. of America, 37 Murray St.
Thermal Syndicate Ltd., The, 50 E. 41st St.
N. Y., Rochester
Pfaudler Co., The
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cambridge
Guernsey Earthenware Co.
Ohio, Elyria
Elyria Enameled Products Co.
Ohio, Zanesville
Ohio Pottery Co.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co.

Dishes, Evaporating—*cont.*

Pa., Pittsburgh
MacBeth Evans Glass Co.
Scientific Materials Co., 711 Forbes St.

Dishes, Evaporating, Stoneware

N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.

Dishes, Flat Bottom

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Dishes, Form, Classen

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Dishes, for Milk, Sugar, Water and Wine Analysis

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Dishes, Petrie

N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Palo Co., 90 Maiden Lane
Ohio, Cambridge
Cambridge Glass Co.
Ohio, East Akron
Knight, Maurice A.

Dishes, Platinum

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., 54 Austin Ave.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Dishes, Porcelain (*see Porcelain Ware*)

Dishes, Stender

Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Disinfectors

Ohio, Cambridge
Cambridge Glass Co.
N. Y., New York City
Hospital Supply Co., 53 5th Ave.
Kny-Scheerer Co., 404 W. 27th St.
West Disinfecting Co., Inc., 12 E. 42d St.

Disintegrating Machinery

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Ind., Aurora
Stedmans Foundry & Machine Works
Mass., Boston
Holmes & Blanchard Co., 31 State St.

Disintegrators

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Raymond Bros., Impact Pulverizer Co., 1318 N. Branch St.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.
Sackett, A. J.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Brooklyn
Houchin-Aiken Co.
N. Y., New York City
Abbe, Paul O., 30 Broad St.
Abbe Engineering Co., 220 Broadway
K. B. Pulverizer Co., 86 Worth St.
Ohio, Bucyrus
American Clay Machinery Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Dissecting Instruments

Ill., Chicago
Chicago Surgical & Electrical Co., 324 W. Superior St.
Pa., Philadelphia
Williams-Brown & Earle, 918 Chestnut St.

Dissociators

Cal., Los Angeles
Sirch, C. W., 126 W. 3d St.

Drills, Diamond

Ill., Chicago
Standard Diamond Drill Co., First National Bank Bldg.
Sullivan Machinery Co., Peoples' Gas Bldg.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway

Drills, Electric

Ill., Chicago
Chicago Pneumatic Tool Co., 343 S. Dearborn Ave.
Md., Baltimore
Black & Decker Mfg. Co., 105-115 S. Calvert St.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
Ohio, Columbus
Jeffrey Mfg. Co.

Drills, High Speed (*see Drills, Twist*)

Drills, Ore (*see Drills, Coal*)

Drills, Percussion

N. Y., New York City
Diamond Expansion Bolt Co., 90 West St. corner Cedar

Drills, Pneumatic

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Minn., St. Paul
Helwig Mfg. Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Ohio, Cleveland
Cleveland Pneumatic Tool Co., 6410 Hawthorne Ave.

Drills, Portable (Electric)

Ill., Chicago
Electro Magnetic Tool Co., 2902 Canoll Ave.
Ky., Louisville
Clark Electric Co., Jas., Jr.
Mass., West Newton
American Electric Tool Co.
N. Y., New York City
Star Expansion Bolt Co., 147-149 Cedar St.
Ohio, Cincinnati
Neil & Smith Electric Tool Co., 120-122 E. 6th St.
Standard Electric Tool Co.
Ohio, Cleveland
Van Dorn Electric Tool Co.

Drills, Rock (*see Drills, Coal*)

Drills, Stone (*see Drills, Coal*)

Drills, Twist

Mass., Athol
Union Twist Drill Co.
Mass., New Bedford
Morse Twist Drill & Machine Co.
Mich., Detroit
Detroit Twist Drill Co., 634-646 W. Fort St.
National Twist Drill & Tool Co.
N. Y., New York City
Pratt & Whitney Co., 111 Broadway
N. Y., Syracuse
Syracuse Twist Drill Co.
Ohio, Akron
Whitman & Barnes Co.
Ohio, Cleveland
Cleveland Twist Drill Co.
Standard Tool Co.
Ohio, Toledo
Toledo Drill & Tool Co.

Dissolvers

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer, 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
N. Y., New York City
Dorr Co., The, 17 Battery Pl.
General Ceramics Co., 50 Church St.
Pa., Coatesville
Coatesville Boiler Works
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Dissolvers, Blanc Fixe

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Dissolvers, China Clay

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Dissolvers, Glue

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Dissolvers, Salts

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Dissolvers, Satin White

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Distilling Apparatus (*see also Stills*)

Ill., Batavia
Sperry & Co., D. R.

Distilling Apparatus—*cont.*

Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
Central Scientific Co., 460 E. Ohio St.
Schaar & Co., 1025 S. State St.
Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Lummus, Walter E., 88 Broad St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. Y., Buffalo
Devine Co., J. P.
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Bernard & Co., F. J., 70 Murray St.
General Ceramics Co., 50 Church St.
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
N. Y., Rochester
Pfaudler Co., The
Ohio, Cincinnati
Vulcan Copper Works Co., 122 Sycamore St.
Ohio, Elyria
Elyria Enameled Products Co.
Ohio, Hamilton
Hamilton Copper & Brass Works
Pa., Philadelphia
Oat & Sons, Jos., 230 Quarry St.
Stokes Machine Co., F. J.
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.
Wis., Milwaukee
Vilter Mfg. Co.

Douches

Ohio, Cambridge
Cambridge Glass Co.

Doors, Oven

Ill., Batavia
Sperry & Co., D. R.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.

Draft Apparatus (*see Blowers*)

Draft Apparatus, Mechanical

N. Y., New York City
Green Fuel Economizer Co., 90 West St.

Drafting Tables

Mich., Kewanee
Kewanee Mfg. Co.

Drains

Ill., Chicago
Illinois Malleable Iron Co.
Mo., St. Louis
Nelson Mfg. Co., 10th and Chestnut Sts.
N. J., Burlington
United States Cast Iron Pipe & Foundry Co.
N. Y., New York City
Mott Iron Works, 118 5th Ave.
Pa., Pittsburgh
Standard Sanitary Mfg. Co.

Dredging Machinery

Cal., San Francisco
Union Iron Works
Mich., Saginaw
Wickes Bros., 512 Water St.
N. Y., New York City
Hayward Co., 50 Church St.
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Marion
Marion Steam Shovel Co.
Wis., South Milwaukee
Bucyrus Co.
Wis., Superior
Superior Iron Works Co.

Drills, Coal

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Sullivan Machinery Co., People's Gas Bldg.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Ohio, Columbus
Jeffrey Mfg. Co.

Drills, Core

Ill., Chicago
Standard Diamond Drill Co., First National Bank Bldg.
Sullivan Machinery Co., People's Gas Bldg.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway

Drivers, Bolt

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.

Drives

Ill., Chicago
Caldwell & Son Co., H. W., 17th St. and Western Ave.
Link-Belt Co., W. 39th St. and Stewart Ave.
Ohio, Tiffin
Webster Mfg. Co.

Droppers

Ohio, Akron
Goodrich Co., B. F.
Ohio, Ashland
Faultless Rubber Co.

Drug Mills Machinery

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Mich., Detroit
Mead & Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Brooklyn
Ross & Son Co., Chas.
N. Y., Buffalo
Cox Process Co.
N. Y., New York City
Day & Co., J. H.
N. Y., Poughkeepsie
Lane Bros. & Co.
N. Y., Syracuse
Boomer & Boschert Press Co.
Pa., Philadelphia
Enterprise Mfg. Co.

Drums, Acetone

N. Y., Brooklyn
Meurer Steel Barrel Co., Inc., 567 Flushing Ave.

Drums, Acid

N. Y., Brooklyn
Meurer Steel Barrel Co., Inc., 567 Flushing Ave.

Drums, Alcohol

N. Y., Brooklyn
Meurer Steel Barrel Co., Inc., 567 Flushing Ave.

Drums, Steel Glass Enameled

N. Y., Rochester
Pfaudler Co.

Drums, Copper

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Gerdes & Co., Inc., 50 Church St.

Drums, Steel

Ill., Chicago
American Spiral Pipe Works, 14th St. and S. Cicero Ave.
Mich., Detroit
Detroit Range Boiler Co., 625 24th St.
Welded Steel Barrel Corp.
Mo., Kansas City
Columbian Steel Tank Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Meurer Steel Barrel Co., Inc., 567 Flushing Ave.
N. Y., Rochester
Pfandler Co.
Ohio, Alliance
Reeves Bros. Co.
Ohio, Cleveland
Cleveland Steel Barrel Co.
Pa., Pittsburgh
Scaife & Sons Co., First Nat. Bank Bldg.
Pa., Sharon
Pressed Steel Products Co.
Wis., Milwaukee
Pressed Steel Tank Co.

Drums, Steel, Galvanized

N. Y., Brooklyn
Meurer Steel Barrel Co., Inc., 567 Flushing Ave.

Drums, Steel, Tin Lined

N. Y., Brooklyn
Meurer Steel Barrel Co., Inc., 567 Flushing Ave.

Drums, Steel, with removable heads

Mich., Detroit
Detroit Range Boiler Co.
N. Y., Brooklyn
Meurer Steel Barrel Co., Inc., 567 Flushing Ave.

Drum Washing Machines

Ill., Batavia
Sperry & Co., D. R.

Dry Blast Plants

N. Y., New York City
Carrier Engineering Corp., 39 Cortlandt St.

Dry Kilns (*see Kilns, Dry*)

Dryers, Atmosphere

N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Gordon Engineering Corp., 39 Cortlandt St.

Dryers, Centrifugal

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mass., Boston
National Separator & Machine Co., 89 State St.
N. Y., Troy
Tolhurst Machine Works

Dryers, Coal

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
N. Y., New York City
Ruggles-Coles Engineering Co., 50 Church St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.

Dryers, Compartment

N. Y., New York City
Gordon Engineering Corp., 39 Cortlandt St.

Dryers, Continuous Belt

N. Y., Buffalo
Zaremba Co., Morgan Bldg.

Dryers, Direct Heat

N. Y., New York City
American Process Co., 68 William St.
Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.
Md., Baltimore
Meade & Co., Richard K., Law Bldg.
Mass., Fall River
Scott & Co., Ernest
N. Y., New York City
Ruggles-Coles Engineering Co., 50 Church St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Dryers, Drum

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Redfield, Robert S., 327 S. La Salle St.
Mass., Fall River
Scott & Co., Ernest
Ohio, Akron
Biggs Boiler Works Co.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Dryers, Drum, Vacuum

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Dryers, Fertilizer

Md., Baltimore
Meade & Co., Richard K., Law Bldg.
N. Y., New York City
American Process Co., 68 William St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., Philadelphia
Stokes Machine Co., F. J.

Dryers, Indirect Heat

N. Y., New York City
Ruggles-Coles Engineering Co., 50 Church St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Dryers, Laboratory

N. Y., Buffalo
Buffalo Foundry & Machine Co., 43 Winchester Ave.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.

Dryers, Liquid

N. Y., Buffalo
Buffalo Foundry & Forge Co., 26 Winchester Ave.
Ohio, Akron
Biggs Boiler Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Dryers, Ore

Cal., San Francisco
Union Iron Works
N. Y., Buffalo
Buffalo Foundry & Forge Co., 26 Winchester Ave.
N. Y., New York City
American Process Co., 68 William St.
Ruggles-Coles Engineering Co., 50 Church St.
Mine & Smelter Supply Co., 42 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.

Dryers, Pharmaceutical

N. Y., Buffalo
Devine Co., J. P.
Pa., Philadelphia
Stokes Machine Co., F. J.

Dryers, Phosphate Rock (*see Dryers, Fertilizers*)

Dryers, Rotary

Mass., Fall River
Scott & Co., Ernest, P. O. Box 259

Dryers, Rotary—*cont.*

Mass., South Boston
Hersey Mfg. Co.
Mich., Muskegon
Muskegon Boiler Works
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., New York City
American Process Co., 60 William St.
Machinery Utilities Co., Inc., 501 5th Ave.
Ruggles-Coles Engineering Co., 50 Church St.
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.
Ohio, Akron
Biggs Boiler Works
Ohio, Bucyrus
American Clay Machinery Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Cummer & Son Co., F. D., 413, The Arcade
Union Engineering Co., 16161 Columbus Rd.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.
Wis., Manitowoc
Manitowoc Boiler Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Dryers, Rotary, Vacuum

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Dryers, Shelf

Mass., Fall River
Scott & Co., Ernest
N. J., East Carteret
Wheeler Condenser & Eng. Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., New York City
Gordon Engineering Corp., 39 Cortlandt St.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Dryers, Shelf, Laboratory Vacuum

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Dryers, Shelf, Vacuum

Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Dryers, Sodium Benzol Sulphonate

N. Y., Buffalo
Devine Co., J. P.

Dryers, Steam

N. Y., New York City
Ruggles-Coles Engineering Co., 50 Church St.

Dryers, Steam Jacketed

Ill., Chicago
Perrin & Co., William R., Old Colony Bldg.
Redfield, Robert S., 327 S. La Salle St.

Dryers, Stone

N. Y., New York City
Ruggles-Coles Engineering Co., 50 Church St.

Dryers, Tunnel

N. Y., New York City
Gordon Engineering Corp., 39 Cortlandt St.

Dryers, Vacuum

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.
Md., Baltimore
Meade & Co., Richard K., Law Bldg.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O., 135 Ogden Ave.
N. Y., Brooklyn
Hubbard's Sons, Norman, 265 Water St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Sowers Mfg. Co., 1300 N. Niagara St.
N. Y., New York City
American Process Co., 68 William St.

Dryers, Vacuum—*cont.*

Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., Philadelphia
Stokes Machine Co., F. J.
Pa., Pittsburgh
Marshall Foundry Co., 28th and Railroad Sts.

Dryers, Vibrating

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Drying Apparatus

Mass., Fall River
Scott & Co., Ernest
Mich., Kalamazoo
Clarage Fan Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Machinery Utilities Co., 501 5th Ave.
Pa., Philadelphia
Philadelphia Drying Machinery Co., 6721 Germantown Rd.
Stokes Machine Co., F. J.

Drying Apparatus, Vacuum

N. Y., Buffalo
Devine Co., J. P.
Sowers Mfg. Co., 1300 Niagara St.

Drying Process

Ind., Indianapolis
Hunter Dry Kiln Co., The, 26th and Cornell Ave.

Ductility Machines, for Hand or Electric Motor

N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.

Dumbwaiters

N. Y., New York City
Otis Elevator Co., 26th St. and 11th Ave.
Sedgwick Machine Works, Inc., 128 W. Liberty St.
Ohio, Cincinnati
Ready Co., H. J.
Warner Elevator Mfg. Co.

Dumbwaiters, Electric

N. Y., New York City
Otis Elevator Co., 26th St. and 11th Ave.

Dumpers, Coal

Ohio, Cleveland
Bartlett & Snow Co., C. O.
Brown Hoisting Machinery Co.

Dumpers, Ore (*see Dumpers, Coal*)

Dust Collectors

Ill., Chicago
Ilg Electric Ventilating Co., 131 Whiting St.
Stroud & Co., E. H., 928 Fullerton Ave.
Sullivan Machinery Co., 122 S. Michigan Ave.
Mass., Boston
Sturtevant & Co., B. F., Hyde Park
Mich., Detroit
American Blower Co.
Mich., Kalamazoo
Clarage Fan Co.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Buffalo
Buffalo Forge Co.
N. Y., New York City
Beach Russ Co., 220 Broadway
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Ingersoll-Rand Co., 11 Broadway
Van Emden Co., H., 145 W. 45th St.

Dust Collectors, Cloth

Ill., Chicago
Clark Dust Collecting Co., 1116 Fisher Bldg.
Stroud & Co., E. H., 928 Fullerton Ave.

Dust and Smoke Determinators

Ill., Chicago
Sargent Steam Meter Co., 2835 Armitage Ave.

Dusting Machinery

Mass., Pittsfield
Jones & Sons Co., E. D., 25 Depot St.

Dustproofing Materials

N. Y., New York City
Sonneborn Sons, Inc., L., 262 Pearl St.

Dyeing Machinery

Mass., Adams
Allen Iron Works
Mass., Boston
Leigh & Butler, 232 Summer St.
Riley Co., C. E., 65 Franklin St.
Mass., Holyoke
Holyoke Machine Co.

Dyeing Machinery—*cont.*

Mass., Orange
Hunt Machine Co.
N. Y., Albany
Townsend Furnace & Machine Shop Co.
N. Y., New York City
American Textile Special Machinery Co., 109 5th Ave.
N. Y., Troy
Tolhurst Machine Works
Ohio, Cincinnati
American Laundry Machinery Co.
Pa., Philadelphia
Philadelphia Drying Machinery Co., 6721 Germantown Ave.
Pa., Pittston
Delahunty Dyeing Machine Co.
R. I., Providence
Textile Finishing Machinery Co.

Dynamite Machinery (*see Explosive Plants*

Dynamite Sheel Machines

N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.

Dynamometers

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
N. J., Jersey City
Standard Motor Construction Co., 172-180 Whiton St.
N. Y., New York City
Chatillon & Sons, John, 85-93 Cliff St.

Dynamos

Ill., Chicago
Fairbanks-Morse & Co., 902 S. Wabash Ave.
Western Electric Co., 500 S. Clinton Ave.
Mass., Boston
Sturtevant Co., Hyde Park
N. Y., Schenectady
General Electric Co.
Ohio, Springfield
Robbins & Myers Co.
Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Ejectors (*Classified lists follow*)

Ejectors, Acid

N. Y., Buffalo
Sherwood Mfg. Co., 1702-12 Elmwood Ave.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.

Ejectors, Sewage (Centrifugal)

Ill., Chicago
Chicago Pump Co., 904-10 W. Lake St.
Economy Pumping Machinery Co., 116-118 N. Carpenter St.
N. Y., New York City
Duriron Castings Co., 90 West St.
Worthington Pump & Machinery Co., 113 Broadway
Ohio, Cincinnati
Lunkenheimer Co.

Elbows, Brass

Ill., Chicago
Crane Co., 836 S. Michigan Ave.
Wolff Mfg. Co., L., 601 W. Lake St.
Mass., Boston
Walworth Mfg. Co.
Mich., Grand Rapids
Wolverine Brass Works
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverly Sts.
Ohio, Columbus
Columbus Brass Co.
Ohio, Mansfield
Ohio Brass Co.
Pa., Pittsburgh
National Tube Co., 1802 Frick Bldg.

Elbows, Iron, Cast and Malleable

Ill., Chicago
Crane Co., 836 S. Michigan Ave.
Illinois Malleable Iron Co., 1801 Diversey Blvd.
Kellogg-Mackay Co., 419 W. 18th St.
Wolff Mfg. Co., L., 601 W. Lake St.
Mass., Boston
Walworth Mfg. Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., Dunkirk
United States Radiator Corp.
Pa., Pittsburgh
National Tube Co., 1802 Frick Bldg.
National Valve Co.

Elbows, Rubber

Ohio, Akron
Goodrich Co., B. F.
Pa., Jeannette
Pennsylvania Rubber Co.
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.

Electric Absorption Dynameters

N. J., Elizabethport
Diehl Mfg. Co.

Electric Carbon Machinery

Mich., Saginaw
Werner & Pfleiderer Co.

Electric Hot Plates

N. J., Newark
Electric Heating Apparatus Co., 123-25 Sussex Ave.

Electric Hot Plates, Multiple Unit

N. J., Newark
Electric Heating Apparatus Co., 123-125 Sussex Ave.

Electrical Measuring Instruments

Conn., Waterbury
Bristol Co.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Daigger & Co., A., 54 W. Kinzie St.
N. J., Newark
Weston Electrical Instrument Co., Waverly Park
N. J., Trenton
Pyrolectric Instrument Co., 148 E. State St.
N. Y., New York City
Pignolet, Louis M., 78 Cortlandt St.
Western Electric Co.
N. Y., Rochester
Taylor Instrument Cos.
N. Y., Schenectady
General Electric Co.
Pa., Philadelphia
Biddle, James G., 1211-13 Arch St.
Leeds & Northrop Co., 4907 Stenton Ave.
Queen-Gray Co., 616-620 Chestnut St.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Electrical Precipitation

Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Electrical Testing Apparatus

(*see Electric Measuring Apparatus*)

Electro Analysis Apparatus

N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Sq.

Electrodes, Carbon

N. Y., Niagara Falls
Acheson Graphite Co.
Star Electric Works of National Carbon Co., Inc.
N. Y., New York City
Leavitt & Co., C. W., 36 Church St.
Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.

Electrodes, Platinum

N. J., Newark
American Platinum Works, 225 New Jersey R. R. Ave.
Baker & Co., Inc., Murray and Austin Sts.
N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Electrolytical Apparatus

N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, East Akron
Knight, Maurice E.

Electrolytic Conductivity Apparatus

Pa., Philadelphia
Leeds & Northrup Co., 4901 Stenton Ave.

Electrolytic Refining

Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Electrolytic Oxygen and Hydrogen Equipment

N. Y., New York City
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.

Electrometers

N. J., Trenton
Pyrolectric Instrument Co., 148 E. State St.

Electroscopes (Ionization)

N. Y., New York City
Standard Scientific Co., 147 Waverly Pl.

Elevators, Acid

N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Elevators, Automatic Package

Pa., Ellwood City
Mathews Gravity Carrier Co.

Elevators, Barrel

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.

Elevators, Bucket

Del., Wilmington
Walker & Elliott, Inc.
Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., New York City
Buchanan Co., Inc., C. G., 90 West St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Tiffin
Webster Mfg. Co.

Elevators, Electric

N. Y., New York City
Otis Elevator Co., 26th St. and 11th Ave.
Ohio, Cincinnati
Reedy Co., J. H.
Warner Elevator Mfg. Co.
Pa., Chester
Wetherill & Co., Inc., Robert

Elevators, Freight

Conn., New Haven
Eastern Machinery Co.
Mass., Worcester
Standard Plunger Elevator Co., 243 Stafford St.
N. Y., New York City
General Elevator Co., 29 Broadway
Otis Elevator Co., 11th Ave. and 26th St.
N. Y., Syracuse
Houser Elevator Co., 314 E. Water St.

Elevators, Hand Power

N. Y., New York City
Sedgwick Machine Works, Inc., 128 W. Liberty St.
Otis Elevator Co., 11th Ave. and 26th St.
Ohio, Sidney
Sidney Elevator Mfg. Co.

Elevators, Hydraulic

N. Y., New York City
Otis Elevator Co., 26th St. and 11th Ave.
Ohio, Cincinnati
Reedy Co., H. J.
Ohio, Toledo
Haughton Elevator & Machine Co.
Pa., Chester
Wetherill & Co., Robert

Elevators, Hydraulic Plunger

Mass., Worcester
Standard Plunger Elevator Co., 243 Stafford St.
Pa., Chester
Wetherill & Co., Inc., Robert

Elevators, Inclined, Automatic

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mo., St. Louis
Alvey Mfg. Co.
N. Y., New York City
Otis Elevator Co., 26th St. and 11th Ave.

Elivators, Light

Mass., Boston
Lamson Co., 100 Boylston St.

Elevators, Portable

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
N. J., Jersey City
N. Y. Revolving Portable Elevator Co., 346-352 Garfield Ave.

Elevators, Sack

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Elevators, Vertical, Automatic

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mo., St. Louis
Alvey Mfg. Co.

Elevating Machinery (*see also Elevators*)

Ill., Chicago
Caldwell & Sons Co., H. W., 17th and Western Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Emery

Ill., Chicago
Rhodes & Co., Jas. H., 157 W. Kinzie St.
N. Y., New York City
Waddell & Co., R. J., 55 Beekman St.
N. Y., Niagara Falls
Carborundum Co.

Emery Cloth

Mass., Boston
American Glue Co., 121 Beverly St.

Emery Paper

Mass., Boston
American Glue Co., 121 Beverly St.

Emery Wheels (*see Grinding Wheels*)

Emery Wheel Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Emulsifiers

N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
N. Y., New York City
Day & Co., J. H.

Emulsifiers, Centrifugal

N. Y., New York City
De Laval Separator Co., 165 Broadway
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.

Enameled Apparatus, Acid Resisting

Ohio, Elyria
Elyria Enameled Products Co.

Enameled Steel Apparatus

N. Y., Rochester
Pfaudler Co., The

Enameling Machinery

N. Y., New York City
Jacoby, Henry E., 95 Liberty St.
Pa., Philadelphia
American Insulating Machinery Co., Inc., Fairhill and Huntingdon Sts.

Engineers, Chemical (*see Chapter V*)

Engines, Chemical

N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.

Engines, Corliss

Cal., Los Angeles
Llewellyn Iron Works
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Pa., Chester
Wetherill & Co., Robt.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Pa., Waynesboro
Frick Co., Inc.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Vilter Mfg. Co., 824 Clinton St.

Engines, Fire, Chemical

N. Y., Elmira
American-La France Fire Engine Co.
Wis., Milwaukee
Erwin Mfg. Co.

Engines, Gas

Cal., Los Angeles
Llewellyn Iron Works
Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Md., Baltimore
Baltimore Cooperage Co., The
Mass., Boston
Sturtevant Co., B. F., Hyde Park
N. Y., New York City
Akerlund & Semmes, Inc., 17 Battery Pl.
Gerdes & Co., Inc., 30 Church St.
Machinery Utilities Co., 501 5th Ave.
Worthington Pump & Machinery Corp., 113 Broadway
N. Y., Schenectady
General Electric Co.
N. Y., Syracuse
Syracuse Industrial Gas Co., 206 McCarthy Bldg.
Pa., Philadelphia
Lonergan Co., J. E., 211 Race St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Davis Mfg. Co., 57th Ave. and Mitchell St.

Engines, Gas Producer

Ill., Chicago
Fairbanks-Morse & Co.
N. Y., New York City
Akerlund & Semmes, Inc., 17 Battery Pl.
Pa., Philadelphia
Otto Gas Engine Works

Engines, Diesel

Conn., Groton
New London Ship & Engine Co.
Ind., Anderson
Anderson Foundry & Machine Works

Engines, Diesel—*cont.*

Ind., Indianapolis
Lyons Atlas Co.
Mo., St. Louis
Fulton Iron Works
N. Y., New York City
Worthington Pump & Machinery Corp., 113 Broadway
Wis., Milwaukee
Nordberg Mfg. Co.

Engines, Oil

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Fairbanks-Morse & Co., S. Wabash Ave.
Mich., Detroit
Gray Motor Co.
Mo., St. Louis
Fulton Iron Works
N. Y., New York City
De La Vergne Machine Co., E. 138th St.
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 113 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Davis Mfg. Co., 57th Ave. and Mitchell St.

Engines, Poppet Valve

Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Engines, Pumping

Ill., Chicago
Fairbanks-Morse & Co.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Pa., Philadelphia
Otto Gas Engine Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Engines, Steam

Cal., Los Angeles
Llewellyn Iron Works, N. Main and Redondo Sts.
Cal., San Francisco
Union Iron Works Co., 260 California Ave.
Conn., New Britain
New Britain Machine Co., 65 Chestnut St.
Del., Wilmington
Pusey & Jones Co.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mass., East Boston
Mead-Morrison Mfg. Co., Prescott and Orleans Sts.
Mich., Bay City
Industrial Works
Mich., Detroit
American Blower Co., 1400 Russell Ave.
Mich., Kalamazoo
Clarage Fan Co.
Mich., Saginaw
Wickes Bros.
N. J., Baldwinsville
Morris Machine Works
N. J., East Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
Brown Hoisting Machinery Co., 50 Church St.
Hunt Co., C. W., 45 Broadway
Machinery Utilities Co., Inc., 501 5th Ave.
Sanborn Evaporator Co., 87 Wall St.
Ohio, Cincinnati
Houston-Stanwood & Gamble Co., The
Pa., Chester
Wetherill & Co., Robert
Pa., Philadelphia
Lonergan Co., J. E., 211 Race St.
Wood & Co., R. D., 400 Chestnut St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Nordberg Mfg. Co.
Vilter Mfg. Co., 824 Clinton St.

Eradiators, Ink

Ill., Chicago
Sanford Mfg. Co., Congress and Peoria Sts.
Mass., Boston
Carter's Ink Co., 239 1st Ave.
N. Y., New York City
Hardmuth, L. & C., 34 E. 23d St.
Pa., Pittsburgh
Elliott Co., B. K., 130 6th St.

Erasers, Blackboard

Ill., Chicago
Andrews Co., A. H., 174 Wabash Ave.
Ill., Chicago Heights
Weber-Costello Co.

Escalators

N. Y., New York City
Otis Elevator Co., 11th Ave. and 26th St.

Evaporators, Basket Type

Ill., Chicago
Swenson Evaporator Co., Monadnock Bldg.

Evaporators, Basket Type—*cont.*

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Sowers Mfg. Co., 1300 Niagara St.
Machinery Utilities Co., Inc., 501 5th Ave.
Zaremba Co., Niagara Life Ins. Bldg.
N. Y., New York City
Sanborn Evaporator Co., 87 Wall St.
Pa., Philadelphia
Stokes Machine Co., B. F.
Wis., Milwaukee
Sommers & Sons Co., Galena and 31st Sts.

Evaporators, Chemical Plants

Del., Wilmington
Pusey & Jones Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., Monadnock Bldg.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mo., St. Louis
Cook Cane Mill & Evaporator Co., 320 N. 2d St.
Zellweger & Sons, John, 1900 Adelaide Ave.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J. Hampton
Standard Water Systems Co.
N. Y., Brooklyn
Burkhard, Inc., Thomas, 494 Flushing Ave.
N. Y., Buffalo
Devine Co., J. P.
Zaremba Co., Niagara Life Ins. Bldg.
N. Y., New York City
General Ceramics Co., 50 Church St.
Griscom-Russell Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Palo Co., 90-92 Maiden Lane
Ordway, Charles, 174 Fulton St.
Roos' Sons, August, 429 E. 91st St.
Sanborn Evaporator Co., 87 Wall St.
United Lead Co., 111 Broadway
Van Emden Co., H., 145 W. 45th St.
N. Y., Rochester
Pfaudler Co.
Ohio, Cleveland
Dyer Co., 2033 Euclid Ave.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Philadelphia
Oat & Sons, Joseph, 232 Quarry St.
Stokes Machine Co., F. J.
Wood & Co., D. R., 400 Chestnut St.
Pa., Pittsburgh
Marshall Foundry Co., 28th and Railroad Sts.
Scotland, Glasgow
Blair Campbell & McLean, Ltd.
Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. Y., New York City
Sanborn Evaporator Co., 87 Wall St.

Evaporators, Crystallizing

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Zaremba Co., 707 D. S. Morgan Bldg.

Evaporators, Glass Enameled

Ohio, Elyria
Elyria Enameled Products Co.
N. Y., Rochester
Pfaudler Co.

Evaporators, High Density

Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. Y., Buffalo
Zaremba Co., 707 D. S. Morgan Bldg.

Evaporators, Horizontal and Vertical Tube, Single and Multiple

Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Evaporators, Lined, Acid Proof

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. Y., New York City
Sanborn Evaporator Co., 87 Wall St.
United Lead Co., 111 Broadway
N. Y., Buffalo
Buffalo Foundry & Machine, 26 Winchester Ave.
Zaremba Co., Morgan Bldg.
N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Evaporators, Multiple Effect

Del., Wilmington
Pusey & Jones Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. J., East Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Zaremba Co., Morgan Bldg.
N. Y., New York City
Sanborn Evaporator Co., 87 Wall St.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Philadelphia
Wood & Co., R. D., 400 Chestnut St.

Evaporators, Pressure

Del., Wilmington
Pusey & Jones Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Lummus Co., Walter S., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., East Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Zaremba Co., Morgan Bldg.
N. Y., New York City
Sanborn Evaporator Co., 87 Wall St.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Philadelphia
Wood & Co., R. D., 400 Chestnut St.
Scotland, Glasgow
Blair, Campbell & McLean, Ltd., Woodville St., Govan

Evaporators, Rapid Circulation

Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Zaremba Co., Niagara Life Ins. Bldg.
Pa., Philadelphia
Stokes Machine Co., 17th and Cambria Sts.

Evaporators, Sugar

Cal., Los Angeles
Llewellyn Iron Works, N. Main and Redondo Sts.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. J., East Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Devine Co., J. P., 1380 Clinton St.
Zaremba Co., Morgan Bldg.
N. Y., New York City
Sanborn Evaporator Co., 87 Wall St.

Evaporators, Vacuum

Del., Wilmington
Pusey & Jones Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
Mass., Fall River
Scott & Co., Ernest
N. J., Burlington
United States Cast Iron Pipe & Foundry Co.
N. J., East Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Zaremba Co., Morgan Bldg.
N. Y., New York City
Sanborn Evaporator Co., 87 Wall St.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Philadelphia
Wood & Co., R. D., 400 Chestnut St.

Excavators (*see Buckets*)

Exhaust Wheels, Electric

N. J., Elizabethport
Diehl Mfg. Co.

Exhausters (*see Blowers, Exhaust*)

Exhausters, Gas

Conn., Hartford
Terry Steam Turbine Co.
Ind., Connersville
Connersville Blower Co.
Mich., Detroit
American Blower Co.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
Ohio, Piqua
Piqua Blower Co., 810 S. Downing St.

Exhausters, Lead (Steam Jet)

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Exhausters, Volume, Cast Housed

Ind., Indianapolis
Indiana Fan Co., 40 E. South St.

Expansion Joints

N. Y., Buffalo
Ross Heater & Mfg. Co., Inc., 504 Mutual Life Bldg.
N. Y., New York City
Kellogg Co., The M. W., 90 West St.

Explosives, Plants for

Ill., Chicago
Westinghouse, Church Kerr & Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., New York City
General Ceramics Co., 50 Church St.
N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.

Extracting Apparatus

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Brooklyn
Howard & Morse, 1197 De Kalb Ave.
Devine Co., J. P.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Garrigue & Co., Wm., 154 Nassau St.
Sanborn Evaporator Co., 50 Broad St.

Extractors, Centrifugal (*see also Centrifugals*)

Mass., Boston
National Separator & Machine Co., 89 State St.
Mass., Brighton
International Equipment Co., 352 Western Ave.
N. Y., Troy
Tolhurst Machine Works

Extractors, Hydro, Centrifugal

Mass., Brighton
International Equipment Co., 352 Western Ave.
N. Y., Troy
Tolhurst Machine Works

Extractors, Oil and Grease

Md., Baltimore
Bartlett-Hayward Co.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Ohio, Cleveland
Bartlett & Snow Co., C. O.

Extractors, Screw

Ohio, Cleveland
Cleveland Twist Drill Co.

Extractors, Tar

Ind., Ft. Wayne
Western Gas Construction Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Ohio, Cleveland
Gas Machinery Co.
Pa., Philadelphia
Wood & Co., D. R., 400 Chestnut St.

Fans, Acid

Colo., Denver
Stearns-Roger Mfg. Co., 1718-20 California St.
Mass., Boston
Electric Blower Co., 352 Atlantic Ave.
Sturtevant Co., B. F., Hyde Park
Mass., Holyoke
Perkins & Son, Inc., B. F.
Mich., Detroit
American Blower Co., 1400 Russell St.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
General Ceramics Co., 50 Church St.
Howard & Morse, 45 Fulton St.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Fans, Disk

Ind., Indianapolis
Indiana Fan Co., 40 E. South St.

Fans, Dust (*see Blowers*)

Fans, Electric

Mich., Detroit
American Blower Co., 1400 Russell Ave.

Fans, Electric—*cont.*

N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
Howard & Morse, 45 Fulton St.
Ohio, Springfield
Robbins & Meyers Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Fans, Exhaust

Ill., Chicago
Ilg Electric Ventilating Co., 154 Whiting St.
Raymond Bros. Impact Pulverizer Co., 1318 N. Branch St.
Ind., Indianapolis
Indiana Fan Co., 40 E. South St.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mich., Detroit
American Blower Co., 1400 Russell Ave.
Mich., Kalamazoo
Clarage Fan Co.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
Duriron Castings Co., 90 West St.
Howard & Morse, 45 Fulton St.
N. Y., Schenectady
General Electric Co.
N. Y., Troy
Tolhurst Machine Co.
Ohio, Springfield
Robbins & Myers Co., The
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Fans, Forced and Induced Draft

Conn., Hartford
Terry Steam Turbine Co.

Fans, Radial Flow

N. Y., New York City
Green Fuel Economizer Co., 90 West St.

Fans, Vacuum (*see Fans, Ventilating*)

Faucets, Acid Proof

Graham Chemical Pottery Works, 986 Metropolitan Ave.
N. Y., New York City
American Hard Rubber Co., 9 Mercer St.
General Ceramics Co., 50 Church St.
Ohio, East Akron
Knight, Maurice A.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
N. Y., Brooklyn

Faucets, Chemical

Pa., Philadelphia
Savill's Sons, Thomas, 1310 Wallace St.

Faucets, Stoneware

N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.

Faucets, Wooden

Ill., Chicago
Redlich Mfg. Co., 637 W. Oak St.

Feed Water Treatment

Ill., Chicago
Dearborn Chemical Co., McCormick Bldg.

Feeders, Apron

Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Feeders, Boiler

Conn., Hartford
Terry Steam Turbine Co.

Feeders, Ore

Cal., Los Angeles
Lane Mill & Machinery Co., 106 W. 3d St.
Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Stroud & Co., E. H., 928 Fullerton Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
Mine & Smelter Supply Co., 42 Broadway
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Felt, Filter

Ill., Chicago
Booth Felt Co., Inc., 116 S. 5th Ave.
Md., Baltimore
Mt. Vernon-Woodberry Mills, Inc.
Mass., Boston
American Felt Co., 100 Summer St.
Felters Co., 103 Bedford St.
Mass., Winchester
Bacon Felt Co.
N. Y., Albany
Huyck & Sons, F. C.
N. Y., Brooklyn
Booth Felt Co., Inc., 440 19th St.
N. Y., New York City
Turner, Halsey Co., 62 Leonard St.

Felt, Waterproof

Mass., Boston
Cabot, Inc., Samuel, 141 Milk St.
Flintkote Mfg. Co., 88 Pearl St.
Mo., St. Louis
Certain-teed Products Corp., 314 N. Broadway
N. Y., New York City
Barrett Co., 17 Battery Pl.
Hydrex Felt & Engineering Co., 120 Liberty St.
Texas Co., 17 Battery Pl.
N. Y., Tonawanda
National Roofing Co., 164 Fillmore Ave.
Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.

Fertilizer Machinery

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Ga., Atlanta
Pratt Engineering & Machine Co.
Md., Baltimore
Codd Co., E. J., 700 S. Caroline St.
Sackett, A. J.
Mass., Boston
Bradley Pulverizer Co., 82 State St.
Sturtevant Mill Co., Harrison Sq.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. Y., New York City
American Process Co., 70 William St.
Ruggles-Coles Engineering Co., 50 Church St.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Tiffin
Webster Mfg. Co.
S. C., Charleston
Valk & Murdoch Co.

Fertilizer Machinery, Fish

N. Y., New York City
American Process Co., 68 William St.

Fertilizer Plants (*See also Fertilizer Machinery*)

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.

Fibre, Celluron

Pa., Bridgeport
Diamond State Fibre Co.

Fibre, Flexible

Pa., Bridgeport
Diamond State Fibre Co.
Del., Wilmington
American Vulcanized Fibre Co., Equitable Bldg.

Fibre, Vulcanized

Del., Wilmington
American Vulcanized Fibre Co., Equitable Bldg.
Delaware Hard Fibre Co.
Pa., Bridgeport
Diamond State Fibre Co.

Fillers, Automatic Machinery

Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie St.
N. Y., Buffalo
Rice & Adams Corp.

Fillers, Paper

N. Y., New York City
St.Lawrence Talc Co., 7 E. 42d St.
Talc Products Co., 11 Pine St.
N. Y., Syracuse
Solvay Process Co.

Filling and Closing Collapsible Tubes, Machines

Pa., New Brighton
Standard Specialty & Tube Co.

Grinding Tools, Machines

Wis., Madison
Gisholt Machine Co.

Filling Tower, Acid Proof

Ohio, East Akron
Knight, Maurice E.

Filter Bags

Utah, Salt Lake City
Filter Fabrics Co., The, Felt Bldg.

Filter Cloth

Ill., Batavia
Sperry & Co., D. R.
Md., Baltimore
Mt. Vernon-Woodberry Mills, Inc.
N. J., Newark
Newark Wire Cloth Co., 222-228 Verona Ave.
N. J., Passaic
Brighton Mills
N. Y., Albany
Huyck & Sons, F. C.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Brighton Mills, 257 4th Ave.
Provost Engineering Corp., 220 Broadway
*Turner, Halsey Co., 62 Leonard St.
Utah, Salt Lake City
Filter Fabrics Co., The, Felt Bldg.

Filter Mass

N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.

Filter Mediums

N. Y., New York City
Provost Engineering Corp., 220 Broadway

Filter Paper

Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
*Laboratory Materials Co., 7407 Calumet Ave.
*Schaar & Co., 1025 S. State St.
Mass., Boston
*Knott Apparatus Co., L. E., Cambridge "A" Station
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
*Reeve, Angel & Co., Inc., H., 120 Liberty St.
*Berge, J. & H., 95 John St.
*Bernard & Co., F. J., 70 Murray St.
*Greiner Co., The Emil, 55 Fulton St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Provost Engineering Corp., 220 Broadway
Pa., Bridgeport
Diamond State Fibre Co.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
*Thomas, Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co., 410 Race St.
Williams-Brown & Earle, 918 Chestnut St.
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Filter Plates

Ill., Batavia
Sperry & Co., D. R.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.

Filter Plates, Acid Proof

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Filter Presses (*see Presses, Filter*)

Filter Racks

N. J., Newark
Williamson, C. T.
N. Y., New York City
Estey Wire Works, 32 Cliff St.
Maris & Co., J. M., 40 Barclay St.

Filter Sand

Ill., Chicago
United States Silica Co., 418 People's Gas Bldg.

Filter Pulp

N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.

Filter Wheel, Continuous Rotary Vacuum

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Filtering Material

N. Y., New York City
Celite Products Co., 11 Broadway

Filters, Acid

N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
Ohio, Akron
U. S. Stoneware Co.
Utah, Salt Lake City
United Filters Corp.

Filters, Acid Proof

Cal., San Francisco
Oliver Continuous Filter Co., 505 Market St.

Filters, Acid Proof—*cont.*

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.
N. Y., New York City
Industrial Filtration Corp., 115 Broadway
Ohio, Akron
U. S. Stoneware Co.

Filters, Air

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Filters, Chemical

Cal., Los Angeles
Sirch, C. W., 126 W. 3d St.
Cal., Oakland
Oliver Mfg. Co.
Ill., Chicago
U. S. Bottlers Machinery Co., 2511-17 Park Ave.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Harrison
Shriver & Co., T.
N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., Corning
Corning Glass Works
N. Y., New York City
General Ceramics Co., 50 Church St.
Industrial Filtration Corp.
Lungwitz, Emil E., 30 Church St.
Carrier Air Conditioning Co. of America
N. Y., Rochester
General Filtration Co., Cutler Bldg.
Ohio, Akron
U. S. Stoneware Co., 174-178 Annandale Ave.
Ohio, East Akron
Knight, Maurice A.
Utah, Salt Lake City
Kelly Filter Press Co.
United Filters Corp., Felt Bldg.

Filters, Clarifying

N. Y., New York City
Permutit Co., The, 440 4th Ave.

Filters, Centrifugal

N. Y., New York City
De Laval Separator Co., 165 Broadway

Filters, Fumes

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Filters, Gases

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Filters, Gravity

N. Y., New York City
Industrial Filtration Corp., 115 Broadway
Utah, Salt Lake City
United Filters Corp.

Filters, Industrial (*see Filters, Chemicals*)

Filters, Iron Removal

N. Y., New York City
Permutit Co., The, 440 4th Ave.

Filters, Manganese Removal

N. Y., New York City
Permutit Co., The, 440 4th Ave.

Filters, Metallurgical Smoke

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Filters, Oil

Cal., Los Angeles
Sirch, C. W., 126 W. 3d St.
Ill., Batavia
Sperry & Co., D. R.
Ind., Ft. Wayne
Bowser & Co., S. F.
Mass., Boston, Hyde Park
Plouff Co., 1558 River St.
N. J., Jersey City
Koven & Bro., L. O., 1540 Ogden Ave.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Aves.
N. Y., New York City
Permutit Co., The, 440 4th Ave.
Utah, Salt Lake City
United Filters Corp

Filters, Salt

Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Filters, Sludge

Cal., Los Angeles
Sirch, C. W., 126 W. 3d St.

Filters, Softening

N. Y., New York City
permutit Co., The, 440 4th Ave.

Filters, Suction, Stoneware

N. Y., New York City
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Filters, Suction

Ohio, East Akron
Knight, Maurice E.
Utah, Salt Lake City
United Filters Corp.

Filters, Vacuum

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Filters, Water

Cal., Los Angeles
Sirch, C. W., 126 W. 3d St.
Ill., Chicago
International Filter Co.
Mass., Boston
Plouff Co., 1558 River St., Hyde Park
Mass., Florence
Norwood Engineering Co.
Mich., Detroit
Hygeia Filter Co.
N. J., Jersey City
Koven & Brother, L. O
N. Y., New York City
International Filtration Corp., 115 Broadway
Permutit Co., The, 440 4th Ave.
Griscom-Russell Co., 90 West St.
Reisert Automatic Water Purifying Co., 23 E. 26th St.
N. Y., Yroy
Ross Valve Mfg. Co.
Pa., Chester
Wetherill & Co., Robert
Pa., Darby
Roberts Filter Mfg. Co.
Pa., Philadelphia
American Water Softener Co., 1011 Chestnut St.
Loomis-Manning Filter Mfg. Co., 1421-1455 S. 37th St.
Pa., Pittsburgh
Elliott Co., 6915 Susquehanna Sr.
Pittsburgh Filter Mfg. Co.
Scaife & Sons Co., Wm. B., 221 First Ave.
Pa., Scottdale
Electric Water Sterilizer Co.

Filters, Wax

Cal., Los Angeles
Sirch, C. W., 126 W. 3d St.

Filtration Plant Equipment

N. Y., New York City
International Filtration Corp., 115 Broadway

Filtration Plants, Gas

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Filtros

N. Y., Rochester
General Filtration Co., Inc.

Fire Alarm Equipments

N. Y., New York City
Ostrander & Co., W. R., 371 Broadway

Fire Engines (*see Engines, Fire*)

Fire Extinguishers

Ill., Chicago
Justrite Mfg. Co., 2061 Southport Ave.
Mass., Boston
Badger Fire Extinguisher Co.
N. Y., Elmira
American-La France Fire Engine Co., Inc.
N. Y., New York City
American Fire Apparatus Co.
Automatic Sprinkler Co., of America, 123 William St.
Hayward & Co., S. F., 250 W. 54th St.
Johns-Manville Co., H. W., 296 Madison Ave.
Montgomery & Co., Inc., 105-107 Fulton St.
Pyrene Mfg. Co., 52 Vanderbilt Ave.
R. I., Providence
General Fire Extinguisher Co.
Wis., Milwaukee
Erwin Mfg. Co.

Fire Pots, Gas

Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Fireproofing (Hollow Tile)

N. Y., New York City
Maurer & Sons, Henry, 420 E. 23d St.

Fittings, Acid

Wis., Milwaukee
Sommers & Sons Co., Galena and 31st Sts.

Fittings, Acid Proof

Ga., Atlanta
Pratt Engineering & Machine Co.
Ill., Chicago
Jones Foundry & Machine Co., W. A., 4402 W. 12th St.
Md., Baltimore
Bartlett-Hayward Co.
Mich., Detroit
Russell Wheel & Foundry Co., Chene & B. L. R. R.
N. J., Burlington
U. S. Cast Iron Pipe & Foundry Co.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Harrison
Driver-Harris Wire Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 47 Winchester St.
Farrar & Trefts, 47 Perry St.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Metals Production Equipment Co., 165 Broadway
Roos' Son, August, 429 E. 91st St.
Stevens Brothers, 928 Singer Bldg.
Thermal Syndicate, Ltd., 508 41st St.
United Lead Co., 111 Broadway
Wilfert Co., John
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverly Sts.
Pa., Philadelphia
Chester Steel Castings Co., 407 Sansom St.
Midvale Steel Co., Widener Bldg.
Wood & Co., R. D., 400 Chestnut St.
Pa., Pittsburgh
Edgewater Steel Co.
Marshall Foundry Co., 28th and R. R. Sts.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Bethlehem Steel Co.

Fittings, Ammonia

Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Fittings, Aluminium

Ill., Chicago
Sturges & Burr Mfg. Co., 508 S. Green St.
N. J., Newark
Metal Products Co.
Pa., Pittsburgh
Aluminum Co. of America

Fittings, Brass, for Cylinders and Laboratory Works

Conn., Hartford
Pratt & Cady Co.
Ill., Chicago
Crane Co.
Mo., St. Louis
Nelson Mfg. Co., N. O., Tenth and Chestnut Sts.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
American Brass & Copper Co., 138 Lafayette Ave.
Larkin & Co., J. K., 34 Reade St.
Welding Supply Co., Inc., 132 Nassau St.
Wilfert Co., John, 259 Broadway
Ohio, Cincinnati
Lunkenheimer Co., Beekman and Waverly Sts.
Powell Co., Wm., 2521-31 Spring Grove Ave.
Ohio, Mansfield
Ohio Brass Co.
Pa., Erie
Jarecki Mfg. Co.
Pa., Pittsburgh
National Tube Co., 1802 Frick Bldg.
Pittsburgh Valve, Foundry and Construction Co., P. O. Box 1016

Fittings, Brine

Neb., Omaha
Baker Ice Machine Co.
N. Y., New York City
Wilfert & Co., John, 259 Broadway

Fittings, Copper (*see Fittings, Brass*)

Fittings, Flanged

N. Y., New York City
Kellogg Co., The M. W., 90 West St.
Pa., Pittsburgh
National Tube Co., Frick Bldg.

Fittings, Hydraulic

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
N. Y., New York City
Larkin & Co., J. K., 34 Reade St.
Wilfert Co., John, 259 Broadway
Pa., Pittsburgh
National Tube Co., Frick Bldg.

Fittings, Glass Enamel

N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Fittings, Lead Lined

N. Y., New York City
United Lead Co., 111 Broadway

Fittings, Malleable Iron Steam

Conn., Branford
Malleable Iron Fittings Co.
N. Y., New York City
Larkin & Co., J. K., 34 Reade St.
Pa., Pittsburgh
National Tube Co., Frick Bldg.

Fittings, Railing

Conn., Branford
Malleable Iron Fittings Co.

Fittings, Steam

Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Fittings, Tin Lined

N. Y., New York City
United Lead Co., 111 Broadway

Fittings, Vulcanized

N. Y., New York City
Gutta Percha & Rubber Mfg. Co., 126 Duane St.
Mechanical Rubber Co., 71 Reade St.

Fixtures, Moisture-Proof

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S. Sangamon St.

Fixtures, Weatherproof, (Heavy Duty)

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S. Sangamon St.

Fixtures, Laboratory *(see Laboratory Apparatus and Equipment)*

Flasks

England, Birmingham
Belchers (Standley) & Mason, Ltd., Church St.
N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Flasks, Chemical *(see Laboratory Apparatus and Equipment)*

Flasks, Glass

England, Birmingham
Belchers (Standley) & Mason, Ltd., Church St.
N. J., Millville
International Glass Co.
N. Y., Corning
Corning Glass Works
Pa., Philadelphia
Whitall-Tatum Co.
Pa., Pittsburgh
Macbeth Evans Glass Co.

Flasks, Fused Silica

N. Y., New York City
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.

Foors for Chemical Plants

Ill., Chicago
American Magnesia Products Co., 600 W. Austin Ave.
Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Flooring, Cork

N. Y., New York City
Dreadnaught Flooring Co., Madison Ave. and 42d St.
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Flooring, Fireproof

Ill., Chicago
U. S. Gypsum Co., 205 W. Monroe St.
Pa., Pittsburgh
National Fire Proofing Co., Fulton Bldg.

Flooring, Laboratory

N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
Troegerlith Tile Co., 103 Park Ave.

Flour Milling Machinery

Mich., Saginaw
Werner & Pfleiderer Co., Inc.
N. Y., New York City
Gerdes & Co., Inc., 40 Church St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Lockland
Gedge-Gray Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Flour Testing Apparatus
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.

Flue Blowers (*see also Blowers*)
N. Y., Buffalo
Sherwood Mfg. Co., 1702-12 Elmwood Ave.

Flue Cleaners
N. Y., Buffalo
Sherwood Mfg. Co., 1702-12 Elmwood Ave.

Flue Gas Instruments
Ill., Chicago
Dwight Mfg. Co., 12-14 S. Jefferson St.

Flue Lining
Mo., St. Louis
Laclede-Christy Clay Products Co., 1673 Railway Exchange Bldg.

Flue Welding Machines
Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Flues, Smoke
N. J., Burlington
United States Cast Iron, Pipe & Foundry Co.

Flumes
Mich., Saginaw
Wickes Boiler Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Ohio, Alliance
Reeves Bros. Co.
Pa., Pittsburgh
Scaife & Sons Co., Wm. B.

Flushers
Cal., Los Angeles
Llewellyn Iron Works
Ind., South Bend
Studebaker Corp.

Forges, Bench
N. Y., New York City
American Gas Furnace Co., 24 John St.

Forges, Compressed Air
Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
N. Y., Buffalo
Buffalo Forge Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway

Forges, Gas
N. Y., New York City
American Gas Furnace Co., 24 John St.

Forges, Portable, Oil
Mass., Boston
Sturtevant Co., B. F., Hyde Park
N. Y., Buffalo
Buffalo Forge Co.
N. Y., Long Island City
Anthony Co., The, 138 West Ave.

Formaldehyde Plants
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Kalbperry Corp., 31 Union Sq., W.

Foundry Riddles
N. J., Newark
Newark Wire Cloth Co., 228 Verona Ave.
N. Y., New York City
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Frames, Blue Print
Ill., Chicago
Pease Co., C. F., 213-31 Institute Pl.

Fruit Essence Plants
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.

Fuel Economizers
Mass., Boston
Sturtevant Co., B. F., Hyde Park
N. Y., New York City
Green Fuel Economizer Co., 90 West St.

Fumigating Apparatus
N. Y., New York City
Hospital Supply Co., 53 5th Ave.

Fumigating Machinery
Cal., Los Angeles
Braun Corp., The, 363 New High St.

Fumigators

N. Y., New York City
Bauer & Black, 104 E. 25th St.

Funnels, Acid Proof

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc.
N. Y., New York City
General Ceramics Co., 50 Church St.
Sidio Co. of America, Inc., 37 Murray St.
Ohio, Cambridge
Cambridge Glass Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Carbondale
Griebel Instrument Co.

Funnels, Aluminium

Pa., Philadelphia
Hero Mfg. Co.

Funnels, Enameled

Ohio, Elyria
Elyria Enameled Products Co.

Funnels, Glass

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Md., Baltimore
Swindell Bros.
N. J., Millville
International Glass Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Maris & Co., J. M.
Ohio, Columbus
Laboratory Supply Co.
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co., 410 Race St.

Funnels, Hard Rubber

Mass., Andover
Tyer Rubber Co.
N. Y., New York City
American Hard Rubber Co., 11 Mercer St.
Mechanical Rubber Co., 73 Reade St.
Vulvanized Rubber Co., The, 251 4th Ave.

Funnels, Separatory

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Funnels, Stoneware

N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Funnels, Tubes, Generators

N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.

Furnaces, Air Tempering

N. Y., New York City
American Gas Furnace Co., 24 John St.

Furnaces Annealing and Tempering

Cal., Los Angeles
Braun Corp., The, 363 New High St.
Ill., Chicago
Chicago Flexible Shaft Co., 608 N. La Salle Ave.
Ill., Harvey
Whiting Foundry Equipment Co.
Mass., Boston
American Incandescent Heat Co., Inc., 10 Post Office Sq.
Mass., Springfield
Gilbert & Barker Mfg. Co.
N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.
N. J., Newark
Electric Heating Apparatus Co.
N. Y., Long Island City
Anthony Co., The, 138 West Ave.
Surface Combustion Co., Wilbur Ave. and Sunswick St.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Best, Inc., W. N., 11 Broadway
Boker & Co., Inc., H., Broadway and Duane Sts.
Quigley Furnace Specialties Co., Inc., 25 Church St.
Rockwell Co., W. S., 50 Church St.
N. Y., Schenectady
General Electric Co.
Pa., Philadelphia
Brown Instrument Co.
Pa., Pittsburgh
McClure Son & Co., G. W., Bessemer Bldg.
Tate-Jones & Co., Empire Bldg.

Furnaces, Assaying and Crucible

Cal., Los Angeles
Calkins Co., 348 N. Main St.

Furnaces, Assaying and Crucible—*cont.*

Cal., San Francisco
Braun-Knecht-Heimann Co., 576 Mission St.
Colo., Denver
Denver Fire Clay Co., 1742 Champa St.
Md., Baltimore
Monarch Engineering & Mfg. Co., American Bldg.
Mich., Detroit
Hoskins Mfg. Co., 453-471 Lawton Ave.
Mo., St. Louis
Heil Chemical & Mfg. Co., 216 S. 4th St.
N. Y., Long Island City
Anthony Co., The, 138 West Ave.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Berge, J. & H., 93 John St.
Eimer & Amend, 205-211 3d Ave.
Mine & Smelter Supply Co., 42 Broadway
Rockwell Co., W. S., 50 Church St.

Furnaces, Babbitt Metal

Ill., Chicago
Chicago Flexible Shaft Co., 608 N. La Salle Ave.
Mass., Springfield
Quigley Furnace & Foundry Co.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Rockwell Co., W. S., 50 Church St.
N. Y., Schenectady
General Electric Co.
Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.
Ohio, Cleveland
Strong, Carlisle & Hammond Co., 336 Frankfort, N. W.
Pa., Pittsburgh
Tate, Jones & Co., Empire Bldg.

Furnaces, Blast

Ill., Chicago
Chicago Flexible Shaft Co., 608 N. La Salle Ave.
Mich., Muskegon
Muskegon Boiler Works
N. J., Newark
Electric Heating Apparatus Co.
N. Y., Buffalo
Buffalo Dental Mfg. Co.
N. Y., New York City
Abbe Engineering Co.
Beach-Russ Co., 220 Broadway
Berge, J. & H.
Quigley Furnace Specialties Co., Inc., 25 Church St.
Rockwell Co., W. S., 50 Church St.
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.
Pa., Pittsburgh
Hagan Co., George J.
McClure Son & Co., G. W.
Tate, Jones & Co., Empire Bldg.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Furnaces, Blast, Gas

Ill., Chicago
Chicago Flexible Shaft Co., 608 N. La Salle Ave.
N. J., Newark
Electric Heating Apparatus Co.
N. Y., Buffalo
Buffalo Dental Mfg. Co.
N. Y., New York City
Abbe Engineering Co.
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Berge, J. & H.
Quigley Furnace Specialties Co., Inc., 25 Church St.
Rockwell Co., W. S., 50 Church St.
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.
Pa., Pittsburgh
Hagan Co., George J.
McClure Son & Co., G. W.
Tate-Jones & Co., Empire Bldg.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Furnaces, Calcining

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.

Furnaces, Carbon Combustion

Pa., Pittsburgh
Crucible Steel Co. of America, 30th and Smallman Sts.

Furnaces, Case Hardening (*see Furnaces, Annealing*)

Furnaces, Chemical (*see also Specific Headings*)

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.

Furnaces, Crucible (*see Furnaces, Assaying*)

Furnaces, Cyanide Hardening

N. Y., New York City
American Gas Furnace Co., 24 John St.

Furnaces, Electric

Ill., Chicago
Industrial Electric Furnace Co., 53 W. Jackson Blvd.
Schaar & Co., 1025 S. State St.
Central Scientific Co., 460 E. Ohio St.
Mich., Detroit
Hoskins Mfg. Co., 453-471 Lawton Ave.
N. J., Newark
Electric Heating Apparatus Co., 123-125 Sussex Ave.
Hanovia Chemical & Mfg. Co., Chestnut St. and New Jersey Railroad Ave.
N. J., Trenton
Pyrolectric Instrument Co., 148 E. State St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Englehard, Charles, 30 Church St.
Foley, Inc., Charles B., 170 Broadway
Hamilton & Hansel, 17 Battery Pl.
N. Y., Schenectady
General Electric Co.
Ohio, Alliance
Electric Furnace Co. of America
Pa., Philadelphia
Ajax Metal Co., 46 Richmond St.
Thomas Co., Arthur H., W. Washington Sq.
Queen Gray Co., 618 Chestnut St.

Furnaces, Electric, Organic Combustion

N. J., Newark
Electric Heating Apparatus Co., 123-125 Sussex Ave.

Furnaces, Electric, Multiple Unit

N. J., Newark
Electric Heating Apparatus Co., 123-125 Sussex Ave.

Furnaces, Electric, Under Experimentation

N. Y., New York City
Florence & Hampton, 1270 Broadway
Thomson, John, 253 Broadway
Pa., Philadelphia
Ajax Metal Co., 46 Richmond St.
Hering, Carl

Furnaces, Enameling

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Quigley Furnace Specialties Co., Inc., 25 Church St.
R. I., Providence
United States Gas Furnace Co.

Furnaces, Galvanizing

N. Y., New York City
Quigley Furnace Specialties Co., Inc., 25 Church St.

Furnaces, Forging

N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., Long Island City
Anthony Co., The, 138 West Ave.
N. Y., New York City
Beach-Russ Co., 220 Broadway
Quigley Furnace Specialties Co., Inc., 25 Church St.
R. I., Providence
U. S. Gas Furnace Co.

Furnaces, Gas

Mass., Springfield
Gilbert & Barker Mfg. Co.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Provost Engineering Corp., 220 Broadway
N. Y., Syracuse
Syracuse Industrial Gas Co., 206 McCarthy Bldg.

Furnaces, Hardening (*see Furnaces, Annealing and Tempering*)

Furnaces, Heat Treating

Mass., Springfield
Gilbert & Barker Mfg. Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Long Island City
Anthony Co., The, 138 West Ave.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Quigley Furnace Specialties Co., Inc., 25 Church St.
Pa., Pittsburgh
Hagan Co., George J., 401 People's Bank Bldg.

Furnaces, Laboratory (*see Furnaces, Assaying and Crucible, Electric*)

Furnaces, Lead, Hardening, Melting, Tempering

Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.
Mass., Springfield
Gilbert & Barker Mfg. Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Furnaces, Lead, Hardening, Melting, Tempering—*cont.*

N. Y., New York City
American Gas Furnace Co., 24 John St.
Quigley Furnace Specialties Co., Inc., 25 Church St.

Furnaces, Melting

Ill., Batavia
Sperry & Co., D. R.
Mass., Springfield
Gilbert & Barker Mfg. Co.
N. J., Jersey City
Koven & Brother, L. O., 154 Ogden Ave.
N. Y., Long Island City
Anthony Co., The, 138 West Ave.
Stuebner Iron Works, G. L., Hancock St. and Vernon Ave.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Best, Inc., W. N., 11 Broadway
Mine & Smelter Supply Co., 42 Broadway
Palo Co., 90-92 Maiden Lane
Quigley Furnace Specialties Co., Inc., 25 Church St.
Ohio, Cincinnati
Macleod Co., 2232 Bogen St.
Ohio, Cleveland
Wellman-Seaver-Morgan Co.
R. I., Providence
National Gas Furnace Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Furnaces, Metallurgical (*see Furnaces, Melting*)

Furnaces, Muffle

Ill., Chicago
Schaar & Co., 1025 S. State St.
Mass., Springfield
Gilbert & Barker Mfg. Co.
Mich., Detroit
Hoskins Mfg. Co.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Mine & Smelter Supply Co., 42 Broadway
Palo Co., 90-92 Maiden Lane
Quigley Furnace Specialties Co., Inc., 25 Church St.
Ohio, Cleveland
Macleod Co., 2232 Bogen St.
R. I., Providence
National Gas Furnace Co.

Furnaces, Muffle, Laboratory, Electric

Pa., Pittsburgh
Crucible Steel Co. of America, 30th and Smallman Sts.
N. Y., New York City
Electric Heating Apparatus Co., 25 Church St.

Furnaces, Non-Oxidizing

Conn., Waterbury
Kenworthy, Inc., Charles F.

Furnaces, Oil Burning

Conn., Waterbury
Kenworthy, Inc., Charles N.
Mass., Springfield
Gilbert & Barker Mfg. Co.
Mich., Detroit
Standard Fuel Appliance Co.
N. Y., Long Island City
Anthony Co., The, 138 West Ave.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Beach-Russ Co., 220 Broadway
Ingersoll-Rand Co., 11 Broadway
Mine & Smelter Supply Co., 42 Broadway
Quigley Furnace Specialties Co., Inc., 25 Church St.

Furnaces, Oil Tempering

Mass., Springfield
Gilbert & Barker Mfg. Co.
N. Y., New York City
American Gas Furnace Co., 24 John St.

Furnaces, Powdered Coal (*see Furnaces, Melting*)

Furnaces, Producer Gas

N. Y., New York City
Akerlund & Semmes, Inc., 17 Battery Pl.

Furnaces, Refining

N. Y., New York City
Quigley Furnace Specialties Co., Inc., 25 Church St.
Ohio, Cincinnati
Macleod Co., 2232 Bogen St.

Furnaces, Roasting (*see Furnaces, Annealing and Tempering, Furnaces, Assaying and Crucible*)

Furnaces, Rotary

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.

Furnaces, Smelting (*see Furnaces, Annealing and Tempering; Furnaces, Assaying and Crucible*)

Furnaces, Soft Metal

N. Y., New York City
American Gas Furnace Co., 24 John St.
Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Furnaces, Tempering (*see Furnaces, Annealing and Tempering*)

Furnaces, Tilting

N. Y., Long Island City
Anthony Co., The, 138 West Ave.

Furnaces, Steel, Graphite

Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.

Furnaces, Steel, Ore Smelting

Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.

Furnaces, Stills

N. Y., New York City
Mott Iron Works, J. L., 118 5th Ave.

Furnaces, Vacuum

N. Y., Schenectady
General Electric Co.

Furnaces, Welding (*see also Furnaces, Electric*)

N. Y., New York City
Beach-Russ Co., 220 Broadway
Quigley Furnace Specialties Co., Inc., 25 Church St.
Ohio, Cincinnati
Macleod Co., 2232 Bogen St.

Fuses, Blasting

Del., Wilmington
Atlas Powder Co.
Du Pont de Nemours Co., E. I.
Hercules Powder Co.

Galvanizing

Conn., Branford
Malleable Iron Fittings Co.
Conn., Bridgeport
American Tube & Stamping Co.
Conn., Middletown
Wilcox Crittender & Co.
Ill., Chicago
Illinois Malleable Iron Co.
N. J., Jersey City
Koven & Brother, L. O.
Pa., Erie
Erie Foundry Co.
Pa., Reading
Gray Iron Foundry Co.
R. I., Providence
Hill Mfg. Co., Jas.

Galvanometers (*see Electric Measuring Instruments*)

Garbage Burners (*see Destructors, Refuse*)

Garbage Disposal Machinery (*see Destructors, Refuse*)

Garnet Paper

Mass., Boston
American Glue Co., 121 Beverly St.

Gas Analysis Apparatus

England, Birmingham
Belchers (Standley) & Mason, Ltd., Church St.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Combustion Appliances Co., 1778 Estes Ave.
*Schaar & Co., 1025 S. State St.
Vulcan Fuel Economy Co., 230 S. La Salle St.
Simonds & Co., G. L., 230 S. La Salle St.
Mich., Detroit
Precision Instrument Co., 114 Beautien Ave.
Mo., St. Louis
Defender Automatic Regulator Co., 506 Oriel Bldg.
N. Y., Buffalo
Pierce Co., William B., 45 N. Division St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Greiner Co., The Emil, 55 Fulton St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Gas Burner Rings

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

Gas Burning Equipment (*see Gas Plant Machinery*)

Gas Cleaning Plants

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.
Pa., Pittsburgh
Coal & Coke By-Products Co., 421 Wood St.

Gas Collectors

Mich., Detroit
Precision Instrument Co.

Gas Container Testing Machines

N. J., Aldena
Watson-Stillman Co., The

Gas Engines (*see Engines, Gas*)

Gas Filtering Installations

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Gas Lighting Accessories

Conn., Meriden
Bradley & Hubbard Mfg. Co.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Gloucester
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Welsbach Co.
Western Electric Co., 463 West St.

Gas Machines

N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Gas Mantle Dips

N. Y., New York City
Du Pont Chemical Works, 120 Broadway

Gas Masks

Ill., Chicago
Life Saving Device Co., 564 W. Monroe St.
N. Y., Elmira
American La-France Fire Engine Co., Inc.
N. Y., New York City
National Resuscitating Apparatus Co., Inc., 39 E. 19th St.

Gas Plants, By-Product

Pa., Pittsburgh
Koppers Co., H.

Gas Plant Machinery

Ill., Chicago
Schaar & Co., 1025 S. State St.
Md., Baltimore
Bartlett-Hayward Co.
Mich., Detroit
Detroit Heating & Lighting Co.
Mich., Muskegon
U. S. Gas Machine & Pattern Co.
N. J., Newark
Isbell-Porter Co.
N. Y., Brooklyn
Improved Appliance Co., 450 Kent Ave.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Bernard & Co., F. J., 70 Murray St.
Selas Co., 521 W. 23d St.
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Ohio, Cleveland
Gas Machinery Co.
Pa., Philadelphia
United Gas Improvement Co., Broad and Arch Sts.
Wood & Co., D. R., 400 Chestnut St.

Gas Power

Minn., Minneapolis
Zenith Scientific Laboratories, 21 5th Ave., N. E.

Gas Producers

Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., New York City
Akerlund & Semmes, Inc., 17 Battery Pl.
De La Vergne Machine Co., 1123 E. 138th St.
Gerdes & Co., Inc., 30 Church St.
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Syracuse
Syracuse Industrial Gas Co., 206 McCarthy Bldg.
Ohio, Lexington
Smith Gas Engineering Co.
Ohio, Mt. Vernon
Chapman Engineering Co.
Pa., Philadelphia
Coal & Coke By-Products Co., 421 Wood St.
Otto Gas Engine Works
Wood & Co., R. D., 400 Chestnut St.
Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.
Pa., Pittsburgh
Hagan Co., George J., 401 People's Bank Bldg.
Marshal Foundry Co., 28th and Railroad Aves.
Otto Gas Engine Works

Gas Producers, Fuel

N. Y., Syracuse
Syracuse Industrial Gas Co., 206 McCarthy Bldg.

Gas Proof Fixtures

Ill., Chicago
Benjamin Electric Mfg. Co., 120 Sangamon St.

Gas Purifying Material

N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.

Gas Scrubbers

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Gas Washers

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.

Gaskets, Acid and Chemical Resistance

N. J., Brunswick
Goetze Gasket & Packing Co.
N. Y., New York City
Schwenker, Inc., W. M., 340 E. 92d St.
U. S. Indestructible Gasket Co., 52 Church St.
Ohio, Akron
Akron Metallic Gasket Co.
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Gaskets, Ammonia

Ill., Chicago
Guillot Metal Gasket & Supply Co., 24 S. Clinton St.
Ohio, Akron
Akron Metallic Gasket Co.
Pa., Philadelphia
Quaker City Rubber Co.

Gaskets, Asbestos

N. Y., New York City
Johns-Manville Co., H. W., 296 Madison Ave.
Ohio, Cincinnati
Cincinnati Gasket & Packing Co., 1546-1548 Elm St.
Ohio, Lockland
Cavey Mfg. Co., Philip
Pa., Ambler
Keasbey & Mattison Co.
Pa., Franklin
Franklin Mfg. Co.
Pa., Philadelphia
Quaker City Rubber Co.

Gaskets, Copper

Ill., Chicago
Guillott Metal Gasket & Supply Co., 24 S. Clinton St.
Mich., Detroit
McCord Mfg. Co., 2587 E. Grand Blvd.
N. J., New Brunswick
Goetze Gasket & Packing Co.
N. Y., New York City
Hungerford Brass & Copper Co., U. T., 84 Lafayette St.

Gaskets, Copper, Corrugated

Ill., Chicago
Guillott Metal Gasket & Supply Co., 24 S. Clinton St.
N. Y., New York City
U. S. Mineral Wool Co., 280 Madison Ave.

Gaskets, Devo

N. J., New Brunswick
Goetze Gasket & Packing Co.

Gaskets, Lead

Ill., Chicago
Guillott Metal Gasket & Supply Co., 24 S. Clinton St.
N. Y., New York City
United Lead Co., 111 Broadway
Ohio, Akron
Akron Metallic Gasket Co., 152 N. Union St.

Gaskets, Leather

Mass., Worcester
Graton & Knight Mfg. Co.
N. Y., New York City
Schieren Co., Chas. A., 30-38 Ferry St.

Gaskets, Metal, Various

Ill., Chicago
Guillott Metal Gasket & Supply Co., 24 S. Clinton St.
N. J., New Brunswick
Goetze Gasket & Packing Co.
N. Y., New York City
Sarco Co., Inc., 229 Broadway
Ohio, Akron
Akron Metallic Gasket Co., 152 N. Union St.
Ohio, Cincinnati
Cincinnati Gasket & Packing Co., 1546-48 Elm St.

Gaskets, Rubber

Ill., Chicago
Crane Co., 836 S. Michigan Ave.
Mass., Boston
Boston Belting Co., 84 Linden Park St.
Knowlton Rubber Co., Geo. W., 60 Pearl St.

Gaskets, Rubber—*cont.*

Ohio, Akron
Goodrich Co., B. F.
Ohio, Cincinnati
Cincinnati Gasket & Packing Co., 1546-48 Elm St.
Ohio, Cleveland
Mechanical Rubber Co.
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.

Gaskets, Tubing

N. Y., New York City
Jenkins Brothers, 80 White St.

Gaskets, Vulcanized Fibre

Del., Wilmington
American Vulcanized Fibre Co.

Gauge Rods

Ill., Chicago
Redlich Mfg. Co., 637 W. Oak St.

Gauge Testers

Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Ashton Valve Co., 271 Franklin St.
Mass., Foxboro
Foxboro Co.
N. Y., Brooklyn
Schaeffer & Hudenberg Mfg. Co., Berry and S. 5th Sts.
N. Y., New York City
Tagliabue Mfg. Co.
Pa., Philadelphia
Lonergan Co., J. E., 211-15 Race St.
Quimby Engineering Co., 915 Ridge Ave.

Gauges, Altitude

Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
U. S. Gauge Co., 67 Wall St.

Gauges Ammonia

Conn., Hartford
Pratt & Cady Co., Inc.
Conn., Waterbury
Bristol Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Ashton Valve Co., 271 Franklin St.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
U. S. Gauge Co., 67 Wall St.
N. Y., Rochester
Taylor Instrument Co.
Pa., Philadelphia
Lonergan Co., J. E., 211-215 Race St.

Gauges, Automatic Safety

N. Y., Watertown
Watertown Specialty Co., 112 E. Moulton St.

Gauges, Compound

Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
U. S. Gauge Co., 67 Wall St.

Gauges, Differential

Ill., Chicago
Sargeant Steam Meter Co., 2835 Armitage Ave.
Mass., Foxboro
Foxboro Co., Inc.
Mass., Waterbury
Bristol Co.
Mich., Detroit
Precision Instrument Co.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.

Gauges, Draft

Conn., Waterbury
Bristol Co.
Mass., Boston
Bailey Meter Co., 141 Milk St.
Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Precision Instrument Co.
Mo., St. Louis
Defender Automatic Regulator Co., 506 Oriel Bldg.
N. Y., New York City
Uehling Instrument Co., Empire Bldg.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Philadelphia
Brown Instrument Co.

Gauges, Electric

Conn., Waterbury
Bristol Co.
N. Y., Schenectady
General Electric Co.

Gauges, Gas (*see Gauges, Test*)

Gauges, Gas, High Pressure

Ohio, Cleveland
Lennox Chemical Co., 1201 E. 55th St.

Gauges, Hydraulic

Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Precision Instrument Co.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
American Meter Co., 559 W. 47th St.
U. S. Gauge Co., 67 Wall St.
N. Y., Rochester
Taylor Instrument Cos.

Gauges, Indicating

Conn., Waterbury
Bristol Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Precision Instrument Co.
N. Y., New York City
Palo Co., 90-92 Maiden Lane
U. S. Gauge Co., 67 Wall St.

Gauges, Locomotive (*see Gauges, Steam*)

Gauges, Mercury

Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Precision Instrument Co.
Pa., Philadelphia
Brown Instrument Co.

Gauges, Oil Pressure

N. Y., New York City
U. S. Gauge Co., 67 Wall St.

Gauges, Pressure

Conn., Waterbury
Bristol Co.
Iowa, Marshalltown
Fisher Governor Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
Ashton Valve Co., 271 Franklin St.
Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Precision Instrument Co.
N. Y., Brooklyn
Schaeffer & Budenberg Mfg., Berry and S. 5th Sts.
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.
Palo Co., 90-92 Maiden Lane
U. S. Gauge Co., 67 Wall St.
Uehling Instrument Co., Empire Bldg.
Pa., Philadelphia
Brown Instrument Co.
Lonergan Co., J. E., 211-215 Race St.
Quimby Engineering Co., 450 N. 10th St.

Gauges, Pyrometer

Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
U. S. Gauge Co., 67 Wall St.

Gauges, Rain

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., Rochester
Taylor Instrument Cos.

Gauges, Recording

Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Precision Instrument Co.
N. Y., Brooklyn
Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Palo Co., 90-92 Maiden Lane
Pa., Philadelphia
Brown Instrument Co.

Gauges, Steam

Conn., Waterbury
Bristol Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co., 208 Camden St.
Ashton Valve Co., 271 Franklin St.
Crosby Steam Gauge & Valve Co., 38 Central St.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Brooklyn
Tagliabue Mfg. Co., J. C., 18 33d St.
N. Y., New York City
United States Gauge Co., 67 Wall St.
N. Y., Rochester
Taylor Instrument Cos.
Ohio, Wadsworth
Ohio Injector Co.
Pa., Philadelphia
Belfield Co., H., 435 N. Broad St.
Brown Instrument Co.

Gauges, Test

N. Y., New York City
U. S. Gauge Co., 67 Wall St.

Gauges, Tire

Mass., Chicopee Falls
Fisk Rubber Co.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
U. S. Gauge Co., 67 Wall St.

Gauges, Vacuum

Conn., Waterbury
Bristol Co.
Mass., Boston
Crosby Steam Gage & Valve Co., 40 Central St.
Mich., Detroit
Precision Instrument Co.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.
N. Y., New York City
Uehling Instrument Co., Empire Bldg.
U. S. Gauge Co., 67 Wall St.
Pa., Philadelphia
Brown Instrument Co.
Quimby Engineering Co., 450 E. 10th St.

Gauges, Water

Ill., Chicago
Crane Co., 836 S. Michigan Ave.
Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
American Injector Co.
Detroit Lubricator Co.
N. Y., New York City
Jenkins Bros., 80 White St.
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Gauges, Water, High Pressure

Pa., Philadelphia
Lonergan Co., J. E., 211 Race St.

Gauze, Chemists'

Mich., Detroit
Hoskins Mfg. Co., 453-471 Lawton Ave.

Gauze, Plain

N. J., New Brunswick
Johnson & Johnson
N. Y., New York City
Bauer & Black, 104 E. 25th St.

Gauze, Platinum Wire

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Gears, Bronze

Del., Wilmington
Walker & Elliott, Inc.
N. Y., Niagara Falls
Titanium Bronze Co.
Pa., Pittsburgh
Vanadium Metal Co., Vanadium Bldg.

Gearing, Flexible

N. Y., Ithaca
Morse Chain Co.

Generating Sets

N. Y., Schenectady
General Electric Co.

Generator Cooling Systems (*see Cooling Systems*)

Generators, Acetylene

Ill., Chicago
Burdett Mfg. Co., St. Johns Ct. and Fulton St.
Oxweld Acetlyne Co., 36th St. and Jasper Pl.
Ia., Ottumwa
Ottumwa-Moline Engine & Pump Co., 802-22 Madison Ave.
Md., Baltimore
Milburn Co., Alexander, 1420-26 W. Baltimore St.
Mo., St. Louis
Modern Engineering Co., 23d and Walnuts Sts.
N. Y., New York City
Air Reduction Sales Co., 120 Broadway
Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.
Pa., Philadelphia
Messer Mfg. Co., 121 N. 7th St.

Generators, Chlorine

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, East Akron
Knight, Maurice A.

Generators, Electric

Conn., Hartford
Terry Steam Turbine Co.
Ill., Chicago
Fairbanks-Morse & Co.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Minn., Minneapolis
Electric Machinery Co.
N. J., Ampere
Crocker-Wheeler Co.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Sprague Electric Works, 527 W. 34th St.

Generators, Electric—*cont.*

N. Y., New York City—cont.
Western Electric Co., Inc., 195 Broadway
N. Y., Schenectady
General Electric Co.
Ohio, Cincinnati
Jantz & Leist Electric Co.
Ohio, Springfield
Robbins & Meyers Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Pa., Ridgway
Ridgway Dynamo & Engine Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Generators, Gas (*see Producers, Gas*)

Generators, Geared, Turbine-driven, Direct Current

N. J., Trenton
De Laval Steam Turbine Co.

Generators, Hydrogen

Ill., Chicago
Burdett Mfg. Co., St. Johns Ct. and Fulton St.
N. Y., New York City
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.
International Oxygen Co., 115 Broadway

Generators, Hydrogen, Electrolytic

N. Y., New York City
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.
International Oxygen Co., 115 Broadway

Generators, Low Voltage

N. Y., Schenectady
General Electric Co.
Ohio, Cincinnati
Jantz & Leist Electric Co.

Generators, Motor

N. Y., Schenectady
General Electric Co.
Ohio, Cincinnati
Jantz & Leitz Electric Co.
Ohio, Cleveland
Lincoln Electric Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Generators, Oxygen

Ill., Chicago
Burdett Mfg. Co., St. Johns Ct. and Fulton St.
N. J., Harrison
Shriver & Co., T., 842 Hamilton St.
N. Y., New York City
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.
International Oxygen Co., 115 Broadway
Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Generators, Oxygen, Electrolytic

N. Y., New York City
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.
International Oxygen Co., 115 Broadway

Generators, Turbo, Electric

N. Y., Schenectady
General Electric Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Generators, Thermalene

Ill., Chicago Heights
Thermalene Co., 17th St. and Lowe Ave.

Generators, Wood

Ohio, Cincinnati
Hauser-Stander Tank Co.

Generator Sets, Turbo

Conn., Hartford
Terry Steam Turbine Co.
N. Y., New York City
MacGovern & Co., Inc., 114 Liberty St.

Girders, Acid Proof, Stoneware

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Glass Blowing

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Daigger & Co., A., 52-56 W. Kinzie St.
N. J., Millville
International Glass Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Pa., Philadelphia
Whitall-Tatum Co.
Pa., Pittsburgh
Macbeth Evans Glass Co.
Scientific Materials Co., 719 Forbes St.

Glass Blowing Machinery

N. J., Bridgeton
Cox & Sons Co.

Glass Bottles (*see Glass, Chemists, Laboratory*)

Glass Bulbs

N. Y., Corning
Corning Glass Works
N. J., Millville
International Glass Co.
Ohio, Cleveland
Euclid Glass Division National Lamp Works of General Electric Co.
Pa., Philadelphia
Whitall-Tatum Co.
Pa., Pittsburgh
Macbeth Evans Glass Co.

Glass Cane

Ohio, Cleveland
Euclid Glass Division National Lamp Works of General Electric Co.
N. Y., Corning
Corning Glass Works

Glass, Chemists, Laboratory

Cal., San Francisco
Braun-Knecht-Heimann Co.
England, Birmingham
Belchers (Stanley) & Mason, Ltd., Church St.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Kimble-Durand Glass Co.
Ind., Alexandria
Lippincott Glass Co.
Mass., Boston
Boston Belting Co., 84 Linden Park St.
Mass., Sommerville
Union Glass Co.
Mo., St. Louis
*Heil Chemical Co., Henry, 216 S. 4th St.
N. J., Millville
International Glass Co.
Wheaton Co., T. C.
N. J., Newark
Hanovia Chemical & Mfg. Co.
Kimble-Durand Glass Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
Eimer & Amend, 211 3d Ave.
*Graham & Zenger, Inc., 104 5th Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Mine & Smelter Supply Co., 42 Broadway
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Wagner Glass Works, 965 E. 132d St.
N. Y., Rochester
Bausch & Lomb Optical Co.
Ohio, Columbus
Laboratory Supply Co., 41 E. Chestnut St.
Pa., Carbondale
Carbondale Instrument Co.
Pa., Philadelphia
Caloris Co., 2110 Alleghany Ave.
*Thomas Co., Arthur H., 238 Washington Sq.
Whitall-Tatum Co., 410 Race St.
Williams-Brown & Earle, Inc., 918 Chestnut St.
Pa., Pittsburgh
Macbeth Evans Glass Co.
Scientific Materials Co., 717 Forbes St.

Glass Cleaning Apparatus

Pa., Pittsburgh
Coal & Coke By-Products Co., 421 Wood St.

Glass Containers

N. J., Bridgeton
Cumberland Glass Mfg. Co.

Glass Enameled Apparatus

N. Y., Rochester
Pfaudler Co., The

Glass, Ground

N. Y., New York City
Cooper & Co., Charles, 194 Worth St.

Glass, Optical

Mass., Southbridge
American Optical Co.
N. Y., Corning
Corning Glass Works
N. Y., Rochester
Bausch & Lomb Optical Co.

Glass, Prismatic

N. Y., New York City
Holophane Glass Co., Inc., 340 Madison Ave.

Glass Tubes and Cylinders (*see Glass, Chemists, Laboratory.*)

Glass Tubing (*see Glass, Chemists, Laboratory*)

Glass Wool

N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.

Glasses, Exhaust

Ohio, Cambridge
Cambridge Glass Co.

Glasses, Magnifying

N. Y., New York City
American Thermo-Ware Co., 16 Warren St.

Glasses, Test

N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Ohio, Cambridge
Cambridge Glass Co.

Glassware, Chemical

Ill., Alton
Illinois Bottle Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Chicago Glass Products Co., 2300 Warren Ave.
*Daigger & Co., A., 52-56 W. Kinzie St.
*Laboratory Materials Co., 7407 Calumet Ave.
*Schaar & Co., 1025 S. State St.
Welch Mfg. Co., W. M., 1516 Orleans St.
Mass., Boston
*Knott Apparatus Co., L. E., Cambridge "A" Station
N. J., Newark
Hanovia Chemical & Mfg. Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
*Berge, J. & H., 95 John St.
Doniger & Co., 164 5th Ave.
Eimer & Amend, 205-211 3d Ave.
Greiner Co., The Emil, 55 Fulton St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Maris & Co., J. M., 40 Barclay St.
Watters Laboratories, Cons., 55 5th Ave.
N. Y., Rochester
Bausch & Lomb Optical Co.
Ohio, Columbus
*Laboratory Supply Co., 41 E. Chestnut St.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
Whitall-Tatum Co., 410 Race St.
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Glassware, Graduated

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Kimble-Durand Glass Co., 402 W. Randolph St.
Mich., Ann Arbor
*Eberbach & Sons Co.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Greiner Co., Emil, 55 Fulton St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Glassware, Laboratory (*see Glassware, Chemical*)

Glassware, Scientific (*see also Glass, Chemists, Laboratory, Glassware, Chemical*)

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Kimble-Durand Glass Co., 402 W. Randolph St.
*Laboratory Materials Co., 7407 Calumet Ave.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Gloves, Acid

Canada, Montreal
Canadian Consolidated Rubber Co., Ltd., 201 Inspector St.

Gloves, Asbestos

N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.

Gloves, Rubber, Acid Proof

Mass., Andover
Tyer Rubber Co.
N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.
Ohio, Akron
Goodrich Co., B. F.
Miller Rubber Co.
Star Rubber Co.
Ohio, Ashland
Faultless Rubber Co.
R. I., Providence
Davol Rubber Co.

Gloves, Sand Blast

N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.
Ohio, Cincinnati
Macleod Co., 2232-2236 Bogen St.

Glue Plants

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.

Gluing Machines

Ohio, Cleveland
Union Engineering Co., 1616 Columbus Rd.

Glycerine Machinery

Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. Y., Buffalo
Devine Co., J. P.

Glycerine Recovery Apparatus

Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.

Glycerine Refining Apparatus

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Devine Co., J. P.

Goggles, Industrial

Ill., Chicago
Chicago Eye Shield Co., 2300 Warren Ave.
N. Y., Elmira
American-La France Fire Engine Co., Inc.
N. Y., New York City
Abbe, Paul O., 30 Broad St.
Hayward & Co., S. F., 250 W. 54th St.

Goggles, Gas Tight

N. Y., New York City
American Thermo-Ware Co., 16 Warren St.

Goggles, Rubber (Fume Proof)

Ind., South Bend
Cover, H. S., P. O. Box 404

Governors, Air

Ill., Quincy
Gardner Governor Co.
N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.

Governors, Feed Water

Mass., Boston
Boston Steam Specialty Co., 185 Franklin St.

Governors, Gas

Md., Baltimore
Bartlett-Hayward Co.
N. Y., New York City
American Gas Furnace Co., 24 John St.
Connelly Iron Sponge & Governor Co., 227 Fulton St.
Ohio, Cleveland
Gas Machinery Co.

Governors, Pressure

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.
Pa., Erie
Jarecki Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Governors, Pump

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Worthington Pump & Machinery Corp., 113 Broadway
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.
Pa., Philadelphia
Houghton & Co., E. F., 238 W. Somerset St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Graders, Ditches

Minn., Mankato
Mayer Bros. Co., 198 Rock St.

Graduates

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Graduates, Glass

Pa., Philadelphia
Whitall-Tatum Co., 410 Race St.

Graduate Blanks

Ohio, Cambridge
Cambridge Glass Co.

Graduate Engraved

Ohio, Cambridge
Cambridge Glass Co.

Graduate Pressed Lines

Ohio, Cambridge
Cambridge Glass Co.

Grain Cleaning Machinery

Ill., Moline
Barnard & Sons Mfg. Co.
Wis., Milwaukee
American Machinery & Construction Co.

Grain Handling Plants

N. Y., New York City
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Van Emden Co., H., 145 W. 45th St.
Ohio, Columbus
Jeffrey Mfg. Co.

Granulating Machinery

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Mich., Saginaw
Werner & Pfleiderer Co., Inc.
Pa., Philadelphia
Whitall-Tatum Co.

Graphite, Flake and Powdered

Mich., Saginaw
U. S. Graphite Co.
N. J., Asbury, Warren County
Asbury Graphite Mills
N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., Niagara Falls
Acheson Graphite Co.
International Acheson Graphite Co.
Pa., Pittsburgh
McCullough-Dalzell Crucible Co.

Graphite Products (*see also Graphite, Flake and Powdered*)

N. J., Jersey City
Dixon Crucible Co., Joseph

Grates, Dumping

N. Y., New York City
Washburn & Granger, 50 Church St.
Pa., Chester
Wetherill & Bro., Robert
Pa., Fullerton
Lehigh Foundry Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Keeler Co., E.

Grates, Shaking (*see Grates, Dumping*)

Grates, Stoneware

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.

Gravitometers

N. J., Newark
Thermo Electric Instrument Co.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.

Grids, Tower, Stoneware

N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.

Grinders, Dye

Ill., Chicago
Kaestner & Hecht, Harrison and Throop Sts.
Mass., Boston
Plouff Co., 1558 River St., Hyde Park
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Buffalo
Sowers Mfg. Co.
Ohio, Cleveland
Bartlett & Snow Co.
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Pa., Philadelphia
Philadelphia Textile Machinery Co.

Grinders, Electric

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Mass., Worcester
Forbes & Myers
N. Y., New York City
Ingersoll-Rand Co., 113 Broadway
Niles-Bement-Pond Co., 111 Broadway
N. Y., Schenectady
General Electric Co.

Grinders, Laboratory

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
Stroud Co., E. H., 928 Fullerton Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th St.
Palo Co., 90-92 Maiden Lane
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Grinders, Ore

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Eimer & Amend, 3d Ave., 18th to 19th St.
Mine & Smelter Supply Co., 42 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.
Stokes Machine Co., F. J.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Grinders, Paint (*see Grinders, Dye*)

Grinders, Wood Pulp

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Carthage
Carthage Machine Co.
N. Y., New York City
Beach-Russ Co., 220 Broadway

Grinding Machinery

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Kaestner & Throop, Harrison and Throop Sts.
Link-Belt Co., W. 39th St. and Stewart Ave.
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mass., Fitchburg
Universal Grinding Machine Co.
Mass., Worcester
Forbes & Myers
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. J., Trenton
Crossley Machine Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Beach-Russ Co., 220 Broadway
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Ingersoll-Rand Co., 11 Broadway
Mine & Smelter Supply Co., 42 Broadway
Provost Engineering Corp., 220 Broadway
Palo Co., 90-92 Maiden Lane
Niles-Bement-Pond Co., 111 Broadway
N. Y., Schenectady
General Electric Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.
Thomas Co., Arthur H., W. Washington Sq.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Grinding Pans (*see Pans, Grinding*)

Grinding Wheels (*see Wheels, Grinding*)

Gum Apparatus

Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Buffalo
Devine Co., J. P.

Guns, Blast, Cement and Concrete

Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Haemometers

N. Y., Buffalo
Spencer Lens Co., 442 Niagara St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Haemacytometers

N. Y., Buffalo
Spencer Lens Co., 442 Niagara St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Hammers, Drop

N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester St.
N. Y., New York City
Niles-Bement-Pond Co., 111 Broadway

Hammers, Pile

Mich., Bay City
Industrial Works
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.

Hammers, Power

Minn., Mankato
Mayer Bros. Co., 198 Rock St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., New York City
Niles-Bement-Pond Co., 111 Broadway

Hammers, Steam

N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., New York City
Niles-Bement-Pond Co., 111 Broadway

Hammers, Riveting, Clipping and Calking

Ill., Chicago
Chicago Pneumatic Tool Co., 343 S. Dearborn Ave.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway

Hardener, Floor

Mich., Detroit
Trus-Con Laboratories, Caniff Road and G. T. R. R.

Hardening Treatment

N. J., Elizabeth
American Metal Treatment Co.

Hardness Measuring Instruments (*see also Scleroscopes*)

Hardware (*see Laboratory Apparatus and Equipment*)

Heat Insulating Materials

Del., Wilmington
American Vulcanized Fibre Co., Equitable Bldg.
Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22d St.
N. J., Bloomfield
Condensite Co. of America
N. Y., New York City
American Hard Rubber Co., 9 Mercer St.
Celite Products Co., 11 Broadway
General Bakelite Co., 2 Rector St.
Johns-Manville Co., H. W., 41st St. and Madison Ave.
Ohio, Akron
Goodrich Co., B. F.
Ohio, Lockland
Cavey Co., Philip
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Heat Insulation Cases

Pa., Pittsburgh
Crucible Steel Co. of America, 30th and Smallman Sts.

Heat Treating

Conn., Bridgeport
Connecticut Metal Treating, 207 Knowlton Ave.
Conn., Danbury
Ball & Roller Bearing Co., Maple Ave.
Ind., Indianapolis
American Highspeed Chain Co., 401 S. Illinois Ave.
N. J., Elizabeth
American Metal Treatment Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Heat Veils

N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.

Heaters, Asphalt

Mass., Boston
Badger & Sons Co., R. E., 75 Pitts St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Long Island City
Stuebner Iron Works, G. L., Hancock St. and Vernon Ave.
Ohio, Cincinnati
Macleod Co., 2232-36 Bogen St.

Heaters, Electric

N. Y., Albany
Consolidated Car Heating Co.
N. Y., New York City
Palo Co., 90 Maiden Lane
Western Electric Co., 463 West St.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric Mfg. Co.

Heaters, Electric, Laboratory

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Lenz Apparatus Co., Inc., 18 E. 16th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Heaters, Feed Water

Conn., New Haven
National Pipe Bending Co., The, River and Lloyd Sts.
Mich., Saginaw
Wickes Boiler Co.
N. J., Camden
Webster & Co., Warren
N. J., East Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Griscom-Russell Co., 90 West St.
Worthington Pump & Machinery Corp., 113 Broadway
Pa., Chester
Wetherill & Co., Robert

Heaters, Glue

Heaters, Gravel

Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Heaters, Oil

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Long Island City
Anthony Co., 138 West Ave.
Ohio, Cincinnati
Macleod Co., 2232 Bogen St.

Heaters, Rivet

N. Y., New York City
American Gas Furnace Co., 24 John St.

Heaters, Storage

Conn., New Haven
National Pipe Bending Co., The, River and Lloyd Sts.

Heaters, Surface

Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Heaters, Tar (*see Heaters, Asphalt*)

Heaters, Water

Mich., Muskegon
Muskegon Boiler Works
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Rose Heater & Mfg. Co., Inc., 504 Mutual Life Bldg.
N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Pa., Philadelphia
Harrison Safety Boiler Works, 17th and Alleghany Sts.

Heating Apparatus, Laboratory

Ill., Chicago
Schaar & Co., 1025 S. State St.
N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Sq.

Heating Appliances, Electric

N. J., Newark
Electric Heating Apparatus Co., 123-125 Sussex Ave.

Heating and Ventilating Apparatus

Ia., Marshalltown
Dunham Co., C. A.
Ill., Chicago
Ilg Electric Ventilating Co., 131 Whiting St.
Mass., Boston
Gurney Heater Mfg. Co., 200 Franklin St.
Sturtevant Co., B. F., Hyde Park
Mich., Detroit
American Blower Co.
N. J., Camden
Webster & Co., Warren
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
R. I., Providence
General Fire Extinguisher Co.

Heating Machines

N. Y., New York City
American Gas Furnace Co., 24 John St.

Heating Machines, Continuous

N. Y., New York City
American Gas Furnace Co., 24 John St.

Heating Systems

Mich., Kalamazoo
Clarage Fan Co.

Heating Systems—*cont.*

N. Y., New York City
Carrier Engineering Corp., 39 Courtlandt St.

Helmets, Fume

Ill., Chicago
Chicago Eye Shield Co., 2300 Warren Ave.
Life Saving Device Co., 564 W. Monroe St.
N. Y., Elmira
American-La France Fire Engine Co., Inc.
N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.
Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Helmets, Gas

Ill., Chicago
Life Saving Device Co., 564 W. Monroe St.
N. Y., Elmira
American-La France Fire Engine Co., Inc.

Helmets, Smoke

Ill., Chicago
Life Saving Device Co., 564 W. Monroe St.
N. Y., Elmira
American-La France Fire Engine Co., Inc.

Hoists, Air

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Mine & Smelter Supply Co., 42 Broadway
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Cincinnati
Macleod Co., 2232 Bogen St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Hoists, Electric

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Link-Belt Co., W. 39th St. and Stewart Ave.
Mich., Detroit
Northern Engineering Works
N. Y., New York City
Otis Elevator Co., 26th St. and 11th Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Holders, Bottle

Mass., Worcester
National Mfg. Co.
N. Y., Brooklyn
New York Stamping Co., N. 11th and Berry Sts.
N. Y., Buffalo
Aldrich Mfg. Co., 55 Illinois St.
Ray Mfg. Co., Geo. A., 1495 Niagara St.
N. Y., New York City
Estey Wire Works Co., 59 Fulton St.
Pa., York
Foreman Systems

Hoods, Acid

N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.

Hoods, Laboratory, Fireproof

N. Y., Jamestown
Dahlstrom Metallic Door Co., 10 Blackstone Ave.

Hoppers, Weighing

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Hose, Acid

Canada, Montreal
Canadian Consolidated Rubber Co., Ltd., 201 Inspector St.
Conn., Bridgeport
Canfield Rubber Co., 129 Garden St.
Ill., Chicago
Fairbanks-Morse & Co.
Mass., Boston
Boston Belting Co., 84 Linden Park St.
N. J., Trenton
Acme Rubber Mfg. Co.
N. Y., Buffalo
Hewitt Rubber Co.
N. Y., New York City
Gutta Percha & Rubber Mfg. Co., 127 Duane St.
New York Rubber Co., 84 Reade St.
Ohio, Akron
Goodrich Co., B. F.
Goodyear Tire & Rubber Co.
Ohio, Cincinnati
Cincinnati Rubber Mfg. Co., Franklin Ave., Norwood
Ohio, Youngstown
Republic Rubber Co.
Pa., Erie
Continental Rubber Works

Hose, Acid—*cont.*

Pa., Jeannette
Pennsylvania Rubber Co.
Pa., Philadelphia
Levick & Sons Co., 106 S. 13th St.

Hose, Air

Mass., Boston
Boston Belting Co., 84 Linden Park St.
Ohio, Akron
Goodrich Co., B. F.
Goodyear Tire & Rubber Co.

Hose, Armored

Mass., Boston
Boston Belting Co., 84 Linden Park St.
Pa., Philadelphia
Quaker City Rubber Co.

Hose, Braided

Mass., Boston
Boston Belting Co., 84 Linden Park St.

Hose, Chemical (*see Hose, Acid*)

Hose, Gas

Mass., Boston
Boston Belting Co., 84 Linden Park St.

Hose, Hot Water

Mass., Boston
Boston Belting Co., 84 Linden Park St.

Hose, Hydraulic

Mass., Boston
Boston Belting Co., 84 Linden Park St.

Hose, Oil

Mass., Boston
Boston Belting Co., 84 Linden Park St.

Hose, Rubber (*see Hose, Acid*)

Hose, Sand Blast

Mass., Chelsea
Revere Rubber Co.
N. J., Trenton
Home Rubber Co.
N. Y., Buffalo
Hewitt Rubber Co.
Pa., Erie
Continental Rubber Works

Humidifiers

Ill., Chicago
Ilg Electric Ventilating Co., 131 Whiting St.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mass., Fitchburg
Parks Co., G. M.
Mich., Detroit
American Blower Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Greeff Engineering & Mfg. Co., 36 Spring St.
N. Y., Buffalo
Buffalo Forge Co., 490 Broadway
N. Y., New York City
Carrier Air Conditioning Co. of America, 39 Courtland St.
Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.
R. I., Providence
Tillotson Humidifier Co.

Humidifying Apparatus (*see Humidifiers*)

Humidity Control

N. Y., New York City
Carrier Engineering Corp., 39 Cortlandt St.
Va., Richmond
Richmond Engineering Co., 12 S. 8th St.

Hydrated Lime Plants

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.

Hydraulic Machinery (*see Specific Headings*)

Hydrochloric Acid Cooling and Absorption Systems (*see Cooling Systems; Absorption Systems*)

Hydrogen Plants

N. Y., New York City
Air Reduction Sales Co., 120 Broadway
Electrolytic-Oxy-Hydrogen Laboratories, Inc., 15 William St.
Improved Equipment Co., 60 Wall St.
Ohio, Cleveland
Gas Machinery Co., 1900 Euclid Ave.

Hydrogen Testing Apparatus

N. Y., New York City
International Oxygen Co., 115 Broadway

Hydrogenation Equipment

N. Y., New York City
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.

Hydrometers

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Daigger & Co., A., 52-56 W. Kinzie St.
*Laboratory Materials Co., 7407 Calumet Ave.
Republic Flow Meters Co., 565 Washington Blvd.

Hydrometers—*cont.*

Ill., Chicago—cont.
Schaar & Co., 1025 S. State St.
Wagner, Carl H., 1944 N. Albany Ave.
N. J., Rutherford
Becton Dickinson Co.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.
N. Y., New York City
*American Thermo-Ware Co., 16 Warren St.
*Berge, J. & H., 95 John St.
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Greiner Co., The Emil, Fulton and Cliff Sts.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Palo Co., 90-92 Maiden Lane
N. Y., Rochester
Bausch & Lomb Optical Co.
Taylor Instrument Cos.
Ohio, Columbus
*Laboratory Supply Co.
Pa., Carbondale
Carbondale Calcium Co.
Griebel Instrument Co.
Pa., Philadelphia
Philadelphia Thermometer Co., 9th and Arch Sts.
*Thomas Co., Arthur H., W. Washington Sq.

Hydroquinone Apparatus

N. Y., Buffalo
Devine Co., J. P.

Hygrometers

Conn., Waterbury
Bristol Co.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Brooklyn
*Green, Henry J., 1191 Bedford Ave.
Tagliabue Mfg. Co., C. J., 18-88 33d St.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Hypochlorite Plants

N. Y., New York City
Industrial Filtration Corp., 115 Broadway
New York Continental Jewell Filtration Co., 15 Broad St.

Ice Making and Refrigerating Machines

Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie St.
Neb., Omaha
Baker Ice Machine Co.
N. J., Brunswick
Brunswick Refrigerating Co.
N. Y., New York City
De La Vergne Machine Co.
Pa., Waynesboro
Frick Co., Inc.
Pa., York
York Mfg. Co.
Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Ice Manufacturers Supplies

N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.

Ignition Apparatus

Ill., Chicago
Accurate Engineering Co.
Mass., Springfield
Witherbee Igniter Co.
N. Y., New York City
Bosch Magneto Co., 223-225 W. 46th St.

Ignition Metal

N. Y., New York City
Haring, Ellsworth, 114-118 Liberty St.

Illumination, Scientific

N. Y., New York City
Holophane Glass Co., Inc., 340 Madison Ave.

Impregnating Apparatus

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
N. Y., New York City
Koven & Bro., L. O., 50 Church St.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Incinerators

Mass., Fall River
Scott & Co., Ernest
Minn., Minneapolis
Decarie Incinerator Co.

Incinerators—*cont.*

N. Y., New York City
Washburn & Granger, 50 Church St.
Tenn., Nashville
Harris Municipal Garbage Incinerator & Steam Generator Co., 65 Life and Casualty Bldg.

Inclinator, Union Carboy

Minn., Minneapolis
McCord & Co., Inc., Horace M., 1013 Lumber Exchange

Incubators

Cal., San Francisco
Braun-Knecht-Heimann, 560 Mission St.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Daigger & Co., A., 52-56 W. Kinzie St.
N. J., Newark
Thermo Electric Instrument Co.
N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Lenz Apparatus Co., Inc., 18 E. 16th St.
Watters Laboratories, Cons., 55 5th Ave.
Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.
*Thomas Co., Arthur H., W. Washington Sq.

Incubators, Bacteriological

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.
N. Y., Rochester
Wilmot Castle Co., 800 St. Paul St.

Incubators, Electric

N. J., Newark
Thermo Electric Instrument Co., 8 Johnson St.

Indicators, Carbon Dioxide

Ill., Chicago
Dwight Mfg. Co., 12-14 S. Jefferson St.
N. Y., Brooklyn
Tagliabue Co., J. C.
N. Y., New York City
Uehling Instrument Co., Empire Bldg.
Pa., Pittsburgh
Bacharach Industrial Instrument Co., 422 1st Ave.
Thwing Instrument Co.

Indicators, Ammonia

Mass., Boston
American Steam Gauge & Valve Mfg. Co., 206 Camden St.
Mass., Foxboro
Foxboro Co., Inc.
Pa., Corry
Trill Indicator Co.
Pa., Philadelphia
Brown Instrument Co.

Indicators, Gas

Mass., Boston
American Steam Gauge & Valve Mfg. Co., 206 Camden St.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
Uehling Instrument Co., Empire Bldg.
Pa., Corry
Trill Indicator Co.
Pa., Philadelphia
Brown Instrument Co.

Indicators, Oil

Mass., Boston
American Steam Gauge & Valve Mfg. Co., 206 Camden St.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
Uehling Instrument Co., Empire Bldg.
Pa., Corry
Trill Indicator Co.

Indicators, Speed

Conn., Bristol
Root Co., C. J., 150 Bridge St.
Conn., Hartford
Veeder Mfg. Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Mass., Foxboro
Foxboro Co., Inc.
N. J., Newark
Weston Electrical Instrument Co., Waverly Park
Pa., Philadelphia
Biddle, James G., 1211-13 Arch St.
Electric Tachometer Corp., Perry Bldg.

Indicators, Steam

Mass., Boston
American Steam Gauge & Valve Mfg. Co., 206 Camden St.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
Uehling Instrument Co., Empire Bldg.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Corry
Trill Indicator Co.

Indicators, Tank Depth

Pa., Philadelphia
Quimby Engineering Co., 450 N. 10th St.

Indicator Fittings and Supplies

Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Crosby Steam Gauge & Valve Co., 40 Central St.

Indicator Posts

Conn., Hartford
Pratt & Cady Co., Inc.
Mich., Detroit
Stephens Mfg. Co., Roe
N. Y., Elmira
Kennedy Valve Mfg. Co.

Industrial Equipment (*see Specific Headings*)

Industrial Plants (*see Specific Headings*)

Injectors

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Mich., Detroit
American Injector Co.
Penberthy Injector Co.
N. Y., Buffalo
Sherwood Mfg. Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.
Ohio, East Akron
Knight, Maurice A.
Ohio, Urbana
Desmond-Stephan Mfg. Co.
Ohio, Wadsworth
Ohio Injector Co., S. Main St.
Pa., Erie
Watson, N. A., 2016 State St.
Pa., Philadelphia
Eynon-Evans Mfg. Co., 15th and Clearfield Sts.
Rue Mfg. Co., 228 Cherry St.
Sellers & Co., Inc., Wm., 1600 Hamilton St.

Injectors for Acid and Gases

Ohio, East Akron
Knight, Maurice A.

Instruments (*see Specific Heading*)

Insulating Compound Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Insulation, Cork

N. Y., New York City
Johns-Manville Co., H. W., Madison Ave. and 41st St.
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Insulation, Electrical

Ill., Chicago
Redmanol Chemical Products Co., 626 W. 22d St.
Mass., Boston
Revere Rubber Co.
N. J., Bloomfield
Condensite Co. of America
N. Y., New York City
General Bakelite Co., 2 Rector St.
Johns-Manville Co., H. W., Madison Ave. and 41st St.
Mechanical Rubber Co., 73 Rector St.
N. Y., Schenectady
General Electric Co.

Insulation Materials

Del., Wilmington
American Vulcanized Fibre Co., Equitable Bldg.
Delaware Hard Fibre Co.
Ill., Chicago
Redmanol Chemical Products Co., 626 W. 22d St.
Mass., Boston
Cabot, Inc., Samuel, 143 Milk St.
Revere Rubber Co.
N. J., Bloomfield
Condensite Co. of America
N. Y., New York City
American Hard Rubber Co.
N. Y., New York City
American Mica Co.
Celite Products Co., 11 Broadway
General Bakelite Co., 2 Rector St.
Johns-Manville Co., Madison Ave. and 41st St.
Ohio, Akron
Goodrich Co., B. F.
Ohio, Lockland
Carey Mfg. Co., Philip
Pa., Pittsburgh
Armstrong Cork & Insulation Co.

Insulation Materials, Thermal

N. Y., New York City
Celite Products Co., 11 Broadway

Insulators, Electrical

Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22nd., St.

Intermediates, Plants for

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co.. J. P.
N. Y., New York City
Westinghouse, Church, Kerr & Co., 37 Wall St.

Iron, Armco

Ohio, Middletown
American Rolling Mill Co.

Iron, Crushed

Pa., Pittsburgh
Pittsburgh Crushed Steel Co., Ltd., 61st St. and A. V. Ry.

Iron, Genuine Swedish

N. Y., New York City
Swedish Iron & Steel Corp., 12 Platt St.

Iron, Low Carbon

Conn., Branford
Malleable Iron Fittings Co.

Iron, Malleable

Conn., Branford
Malleable Iron Fittings Co.

Iron Products, Rust Proof

Conn., Bridgeport
Rust Resisting Black Finish Co.

Iron, Pulverized

Pa., Pittsburgh
Pittsburgh Crushed Steel Co., Ltd., 61st St. and A. V. Ry.

Iron, Pure

Ohio, Middletown
American Rolling Mill Co.

Iron, Vanadium

Conn., Branford
Malleable Iron Fittings Co.

Iron and Steel Analysis Apparatus

Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Isinglass

Ill., Chicago
Armour Glue Co.
N. Y., New York City
*Lehn & Fink, Inc., 120 William St.
*McKesson & Robbins, Inc., 91 Fulton St.
National Gum & Mica Co., 59th St. and 11th Ave.
*Schwenker, Inc., W. M., 340-344 E. 92d St.

Jacketed Apparatus

N. Y., New York City
Van Emden Co., H., 145 W. 45th St.

Jars, Acid Proof

Ill., Monmouth
Western Stoneware Co.
Ill., White Hall
Ruckel & Son, A. D.
Ky., Louisville
Louisville Pottery Co., Floyd and Bloom Sts.
Ky., Paducah
Paducah Pottery Co.
N. J., New Brunswick
Green, A.
N. J., Trenton
Maddock & Son, John
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
*Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Robinson Clay Products Co., of New York, Fuller Bldg.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.
Ohio, Logan
Logan Pottery Co.
Pa., New Brighton
Sherwood Bros. Co.

Jars, Bandage

Ohio, Cambridge
Cambridge Glass Co.

Jars, Battery

N. J., Millville
International Glass Works
N. Y., Corning
Corning Glass Works

Jars, Battery—*cont.*

N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Ohio, Cambridge
Cambridge Glass Co.
Pa., Philadelphia
Whitall-Tatum Co.

Jars, Chemical Stoneware (*see Jars, Acid*)

Jars, Desiccating

Ohio, Cambridge
Cambridge Glass Co.

Jars, Dipping, Acid Proof (*see Jars, Acid*

Jars, Galvanizing, Acid Proof

Ohio, East Akron
Knight, Maurice A.

Jars, Glass (*see Glass, Chemists, Glassware, Chemical*)

Jars, Hydrometer

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Ohio, Cambridge
Cambridge Glass Co.

Jars, Leyden (Pyrex Glass)

N. Y., Corning
Corning Glass Works

Jars, Milk Test

Ohio, Cambridge
Cambridge Glass Co.

Jars, Percolating

Ohio, Cambridge
Cambridge Glass Co.

Jars, Precipitating

Ohio, Cambridge
Cambridge Glass Co.
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Sq.

Jars, Primary and Storage Battery

N. Y., New York City
Corning Glass Works

Jars, Specimen

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Ohio, Cambridge
Cambridge Glass Co.

Jars, Staining

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Ohio, Cambridge
Cambridge Glass Co.

Jars, Storage, Stoneware

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Jars, Vacuum

Conn., New Britain
Landers, Frary & Clark
N. J., Belleville
Bartlett Vacuum Jar Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Vacuum Specialty Co., 624 1st Ave.

Jets, Acid Proof

N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.

Jugs, Acid Proof

Ohio, East Akron
Knight, Maurice A.

Jugs, Mercury, Stone

Ill., Monmouth
Western Stoneware Co.

Kettles

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mich., Saginaw
Wickes Boiler Co.
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co.
United States Cast Iron, Pipe & Foundry Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co.

Kettles—*cont.*

N. Y., Buffalo
Sowers Mfg. Co.
Devine Co., J. P., 1380 Clinton St.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Jacoby, Henry E., 95 Liberty St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
Roos' Sons, August
United Lead Co., 111 Broadway
Van Emden Co., H., 145 W. 45th St.
N. Y., Rochester
Pfaudler Co.
Stevens Bros., 928 Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2225 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Fullerton
Lehigh Foundry Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Pittsburgh
Rosedale Foundry & Machine Co., Columbus and Preble Aves.
Pa., Williamsport
Valley Iron Works

Kettles, Acid Proof

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. J., Burlington
Stuart & Peterson Co.
N. Y., New York City
Bethlehem Foundry & Machine Co., 149 Broadway
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
N. Y., Rochester
Pfaudler Co., The
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Philadelphia
Kutztown Foundry & Machine Co., Morris Bldg.
Wis., Manitowoc
Manitowoc Engineering Works

Kettles, Acid Resistant (*see Kettles, Acid Proof*)

Kettles, Boiling

N. Y., New York City
Dover Boiler Works, 50 Church St.
Pa., Conshohocken
Wood Mfg. Co., John

Kettles, Bronze, for Drugs, Chemicals, Dynamite, Nitroglycerine

Mass., Boston
Badger & Sons Co., R. E., 75 Pitts St.
Mich., Detroit
Detroit Heating & Lighting Co.
Pa., Philadelphia
Cramp & Sons Ship & Engine Building Co., Wm., Richmond and Morris Sts.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Buffalo
Devine Co., J. P.
N. Y., New York City
Roos' Sons, August, 429 E. 91st St.
Ohio, Cincinnati
Macleod Co., 2232-36 Bogen St.

Kettles, Caustic Soda

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Framingham
Manufacturing Equipment & Engraving Co.
Mich., Saginaw
Wickes Boiler Co.
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co.
N. Y., Buffalo
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
Roos' Sons, August
United Lead Co., 111 Broadway
N. Y., Rochester
Pfaudler Co.
Stevens Bros., 928 Singer Bldg.

Kettles, Caustic Soda—*cont.*

Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Williamsport
Valley Iron Works

Kettles, Copper (*see Chemicals, Bronze*)

Kettles, Distilling

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.

Kettles, Enameled

Ill., Batavia
Sperry & Co., D. R.
N. Y., Rochester
Pfaudler Co.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
Ohio, Elyria
Elyria Enameled Products Co.

Kettles, Fusion

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P.
Sowers Mfg. Co.

Kettles, Mixing

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Wickes Boiler Co.
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co.
N. Y., Buffalo
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
United Lead Co., 111 Broadway
N. Y., Rochester
Pfaudler Co.
Stevens Brothers, 928 Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co., Kent St., and B. & O. R. R.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Williamsport
Valley Iron Works

Kettles, Nitrating

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mich., Saginaw
Wickes Boiler Co.
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co.
N. Y., Buffalo
Sowers Mfg. Co.
Devine Co., J. P., 1380 Clinton St.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
United Lead Co., 111 Broadway
N. Y., Rochester
Pfaudler Co.
Stevens Bros., 928 Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.

Kettles, Nitrating—*cont.*

Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Williamsport
Valley Iron Works

Kettles, Paint (*see Kettles, Varnish*)

Kettles, Phenol

N. Y., Buffalo
Devine Co., J. P.

Kettles, Potash (*see Kettles, Caustic Soda*)

Kettles, Reduction

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mich., Saginaw
Wickes Boiler Co.
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co.
N. Y., Buffalo
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
United Lead Co., 111 Broadway
N. Y., Rochester
Pfaudler Co.
Stevens Bros., 928 Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Williamsport
Valley Iron Works

Kettles, Spun Brass, Seamless

Conn., Waterbury
Randolph-Clowes Co., The

Kettles, Steaming

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Kettles, Steam Jacketed

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mich., Detroit
Colton Co., Arthur
Detroit Heating & Lighting Co.
Mich., Saginaw
Wickes Boiler Co.
Mich., Muskegon
Muskegon Boiler Works
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co.
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., Buffalo
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co., 1298-1310 Niagara St.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
United Lead Co., 111 Broadway
N. Y., Rochester
Pfaudler Co.
Stevens Bros., 928 Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Williamsport
Valley Iron Works
Wis., Milwaukee
Sommers & Sons Co., Galena and 31st Sts.

Kettles, Stoneware

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Kettles, Sulphonating

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mich., Saginaw
Wickes Boiler Co.
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co.
N. Y., Buffalo
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
United Lead Co., 111 Broadway
N. Y., Rochester
Pfaudler Co.
Stevens Bros., 928 Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Williamsport
Valley Iron Works

Kettles, Tar

Ill., Batavia
Sperry & Co., D. R.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Mich., Saginaw
Wickes Boiler Co.
Ohio, Cincinnati
Macleod Co., 2232-36 Bogen St.

Kettles, Vacuum

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mich., Saginaw
Wickes Boiler Co.
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co.
N. Y., Buffalo
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
United Lead Co., 111 Broadway
N. Y., Rochester
Pfaudler Co.
Stevens Brothers, 928 Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co., Kent St., and B. & O. R. R.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Williamsport
Valley Iron Works

Kettles, Varnish (Welded)

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., 75 Pitts St.
N. Y., Buffalo
Sowers Mfg. Co.
Pa., Carbondale
American Welding Co.

Kettles, Water Jacketed

Ill., Batavia
Sperry & Co., D. R.

Kettles, Water Jacketed—*cont.*

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mich., Saginaw
Wickes Boiler Co.
Mo., St. Louis
Aufrichtif Copper & Iron Works, 900 S. 3d St.
N. J., Burlington
Stuart & Peterson Co.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. J., Newark
Acid Proof Iron Products Co.
N. Y., Buffalo
Devine Co., J. P., 1380 Clinton St.
Sowers Mfg. Co.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
United Lead Co., 111 Broadway
N. Y., Rochester
Pfaudler Co.
Stevens Brothers, 928 Singer Bldg.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Macleod Co., 2232-36 Bogen St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., Williamsport
Valley Iron Works
Wis., Milwaukee
Sommers & Sons Co., Galena and 31st Sts.

Kilns, Cement

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
N. Y., New York City
Gerdes & Co., Inc., 40 Church St.
Ohio, Alliance
Reeves Bros. Co.
Pa., Pittsburgh
Sterrit-Thomas Foundry Co., 32d and Smallman Sts.

Kilns, Dry

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
Mass., Boston
Sturtevant Co., B. F., Hyde Park
Mich., Detroit
American Blower Co.
Mich., Kalamazoo
Clarage Fan Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Pa., Chester
Wetherill & Co., Robert
Pa., Philadelphia
Philadelphia Drying Machinery Co., 6721 Germantown Ave.
Pa., Pittsburgh
Hagan Co., George J., 401 People's Bank Bldg.
Pa., York
Ruggles-Coles Engineering Co.

Kilns, Lime

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
Mich., Saginaw
Wickes Boiler Co.
N. Y., New York City
Gerdes & Co., Inc., 40 Church St.
Improved Equipment Co., 60 Wall St.
Pa., York
Steacy-Schmidt Mfg. Co.

Kilns, Rotary

Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.
Stroud & Co., E. H., 928 Fullerton Ave.
Mich., Saginaw
Wickes Boiler Co.
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Kneading Machines

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Buffalo
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Cincinnati
Day & Co., J. H., 1142 Harrison Ave.
Scotland, Glasgow
Blair, Campbell & McLean, Ltd., Woodville St., Govan

Kneaders, Vacuum

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Labels

Mass., Framingham
Dennison Mfg. Co.

Labels, Gummed Paper

Mass., Framingham
Dennison Mfg. Co.

Laboratory Apparatus and Equipment

Cal., Berkeley
University Apparatus Co., 2229 McGee Ave.
Cal., San Francisco
Braun Corp., The, 363-371 New High St.
England, Birmingham
Belchers (Standley) & Mason, Ltd., Church St.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Daigger & Co., A., 52-56 W. Kinzie St.
Gaertner & Co., Wm., 5345 Lake Park Ave.
Sargent & Co., E. H.
Schaar & Co., 1025 S. State St.
Stoelting Co., C. H.
Welch Mfg. Co., W. M., 1516 Orleans St.
Mass., Boston
Knott Apparatus Co., L. E.
Mass., Worcester
Norton Co.
Mich., Ann Arbor
Eberbach & Son Co.
Mich., Saginaw
Werner & Pfleiderer, Inc.
Mo., St. Louis
Heil Chemical Co., Henry, 210-214 S. 4th St.
N. J., Millville
International Glass Co.
N. J., Newark
Baker & Co., Inc.
Hanovia Chemical & Mfg. Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
Doniger & Co., 164 5th Ave.
Duriron Castings Co., 90 West St.
Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
Greiner Co., Emil, 55 Fulton St.
Lenz Apparatus Co., Inc., 18 E. 16th St.
Mine & Smelter Supply Co., 42 Broadway
Palo Co., 90-94 Maiden Lane
Scientific Equipment Co., 70 5th Ave.
Standard Scientific Co., 147-152 Waverly Pl.
Thermal Syndicate, Ltd., 50 E. 41st St.
Watters Laboratories, Cons., 55 5th Ave.
N. Y., Rochester
Bausch & Lomb Optical Co.
Castle, Wilmot Co., 800 St. Paul St.
Pfaudler Co., The
Ohio, Columbus
Laboratory Supply Co.
Pa., Malvern
Bishop & Co., Platinum Works, J.
Pa., Philadelphia
Boekel & Co., Wm.
Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co., 410 Race St.
Pa., Pittsburgh
Laboratory Apparatus Co.
Scientific Materials Co., 711-719 Forbes St.
Wis., Kewanee
Kewanee Mfg. Co.

Laboratory Furniture

Mass., Boston
*Knott Apparatus Co., L. E., Cambridge "A" Station
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th Sts.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Palo Co., 90 Maiden Lane
*Scientific Equipment Co., 70 5th Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 719 Forbes St.
Wis., Kewaunee
Kewaunee Mfg. Co.

Laboratory Gas Machines

N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Laboratory Instruments (*see Chemical Apparatus, Laboratory Apparatus and Equipment*)

Laboratory Supports

Ill., Chicago
Gaertner & Co., Wm., 5345 Lake Park Ave.
Mass., Boston
Knott Apparatus Co., L. E., Cambridge "A" Station

Laboratory Water and Gas Fixtures

Mass., Boston
Knott Apparatus Co., L. E., Cambridge "A" Station

Laboratory Ware (*see Laboratory Apparatus and Equipment*)

Ladles

Mass., Boston
Badger & Sons Co., R. E., 75 Pitts St.
Pa., Coatesville
Coatesville Boiler Works
Pa., Midland
Treadwell Construction Co.
Pa., Pittsburgh
Marshall Foundry Co., 28th and Railroad Sts.

Lamps, Acetylene

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Ill., Chicago
Justrite Mfg. Co., 2061 Southport Ave.

Lamps, Alcohol

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
N. Y., New York City
Aluminum Goods Mfg. Co., 30 Church St.
Houchin Co., Thos. W., 38 E. 21st St.
Thurnauer & Bro., G. M., 83 Worth St.
Ohio, Cambridge
Cambridge Glass Co.

Lamps, Daylight

N. Y., New York City
Palo Co., 90 Maiden Lane

Lamps, Electric

N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Lamps, Laboratory

N. J., Hoboken
Cooper-Hewitt Electric Co.
Ohio, Cleveland
Dangler Stove Co., 5017 Perkins Ave.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Lamps, Mazda

N. Y., Schenectady
General Electric Co.

Lamps, Quartz Mercury Vapor

N. J., Hoboken
Cooper-Hewitt Electric Co., 8th and Grand Sts.
N. J., Newark
Hanovia Chemical & Mfg. Co.
N. Y., New York City
R. U. V. Co., 50 Broad St.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Lamps, and Lighting Systems, Gasoline

Ohio, Canton
Sun Vapor & Street Light Co.

Lanterns, Acetylene

Ill., Chicago
Justrite Mfg. Co., 2061 Southport Ave.
Ohio, Cincinnati
Macleod Co., 2232-36 Bogen St.

Lanterns, Electric

N. Y., Schenectady
General Electric Co.

Lanterns, Projection

N. Y., Buffalo
Spencer Lens Co.
N. Y., Rochester
Bausch & Lomb Optical Co.

Laths, Expanded Metal

Mich., Detroit
Trussed Concrete Steel Co.
Ohio, Canton
Berger Mfg. Co.
Ohio, Youngstown
General Fireproofing Co.

Lavatories

Ill., Chicago
Crane Co., 836 S. Michigan Ave.
N. J., Trenton
Trenton Potteries Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Mott Iron Works, J. L., 118 5th Ave.
Wis., Kohler
Kohler Co.

Leaching Equipment

Colo., Denver
Dorr Co., Cooper Bldg.
Ill., Chicago
Swenson Evaporator Co., Monadnock Bldg.

Leaching Equipment—*cont.*

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Aves.
N. Y., Buffalo
Devine Co., J. P.
Zaremba Co., Morgan Bldg.
N. Y., New York City
Dorr Co., The, 17 Battery Pl.
General Ceramics Co., 50 Church St.
Industrial Filtration Corp., 115 Broadway
Machinery Utilities Co., Inc., 501 5th Ave.
Roos' Son, August, 429 E. 91st St.
N. Y., Rochester
Pfaudler Co., The
Pa., Coatesville
Coatesville Boiler Works
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Lead Burners

Mass., Boston
McNamara, M., 171 Broadway
N. Y., Brooklyn
Abernethy John F., 703 Myrtle Ave.
N. Y., New York City
American Lead Burning Corp., 30 Church St.
Ohio, Columbus
Rudolph, Philip J., 190 W. 1st Ave.

Lead Burning Apparatus

Ill., Chicago
Oxweld Acetylene Co.

Lead Pencil Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Lead Pipe Machinery

N. Y., Brooklyn
Robertson & Co., John, 133 Water St.

Lead, Antimonial Sheet

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway
N. Y., New York City
Hungerford Brass & Copper Co., U. T., 84 Lafayette St.

Lead, Chemical Sheet

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway
N. Y., New York City
National Lead Co., 111 Broadway

Lead, Ingot

N. Y., New York City
Du Bois & Co., F. N., 245 9th Ave.

Lead, Pig

Cal., San Francisco
Selby Smelting & Lead Co., Merchants Exchange Bldg.
Ill., Chicago
Eagle Pichor Lead Co., 208 S. La Salle St.
Great Western Smelting & Refining Co.
Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway.
N. Y., New York City
Du Bois & Co., F. N., 245 9th Ave.
United Lead Co., 111 Broadway

Lead, Sheet

Cal., San Francisco
Selby Smelting & Lead Co., Merchants Exchange Bldg.
Ill., Chicago
Eagle Picher Lead Co., 208 S. La Salle St.
Great Western Smelting & Refining Co.
Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway
N. Y., New York City
Du Bois & Co., F. N., 245 9th Ave.
United Lead Co., 111 Broadway

Lead Traps and Bends

N. Y., New York City
Du Bois & Co., F. N., 245 9th Ave.
United Lead Co., 111 Broadway

Lead Wool

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway
N. Y., New York City
United Lead Co., 111 Broadway

Leather, Artificial

Del., Wilmington
Du Pont Fabrikoid Co.
N. J., Passaic
Pantasoto Leather Co.
Pa., Philadelphia
Endura Mfg. Co., 63d St. and Eastwick Ave.

Leather Belt Dressing, Liquid

N. Y., New York City
Du Pont Chemical Works, 120 Broadway
Ohio, Cincinnati
Bradford Belting Co., 201 Walnut St.

Leather, Chamois

Mass., Peabody
Clark Co., B.
N. J., Newark
Newark Chamois Co.
N. Y., Johnstown
Argensinger, Putnam & Co.
Pa., Great Bend
Black Horn Leather Co.

Leather, Flange

N. Y., New York City
Schieren Co., Charles A., 30-38 Ferry St.

Leather, Hydraulic and Valve

Mass., Worcester
Graton & Knight Mfg. Co.
N. Y., New York City
Schieren Co., Charles A., 30-38 Ferry St.

Leather, Lace

Mass., Worcester
Graton & Knight Mfg. Co.
Ohio, Cincinnati
Bradford Belting Co., 201 Walnut St.

Leather Preservative

Mo., St. Louis
American Oleite Sales Co., 1404 N. Park Pl.

Leather, Protective

Mass., Worcester
Graton & Knight Mfg. Co.

Leather Renovators

N. Y., New York City
Du Pont Chemical Works, 120 Broadway

Leather Strapping

Mass., Worcester
Graton & Knight Mfg. Co.

Leather Substitutes (*see Leather, Artificial*)

Lenses

Mass., Southbridge
American Optical Co.
N. Y., Buffalo
Spencer Lens Co., 442 Niagara St.
N. Y., Corning
Corning Glass Works
N. Y., Rochester
Bausch & Lomb Optical Co.

Lenses, Condensing

N. Y., Corning
Corning Glass Works

Levels

Colo., Denver
Ainsworth & Sons, Wm., 2153 Lawrence St.
N. Y., Rochester
Bausch & Lomb Optical Co.
Taylor Instrument Cos.
Pa., Philadelphia
Queen-Gray Co., Inc., 618 Chestnut St.

Lifts, Acid

N. Y., New York City
General Ceramics Co., 50 Church St.
Ingersoll-Rand Co., 11 Broadway
Pa., Philadelphia
Schutte & Koerting Co., 1251 N. 12th St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Lighting Equipment

Ind., Indianapolis
Presto-O-Lite Co.
N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.
N. J., Hoboken
Cooper-Hewitt Electric Co.
N. Y., Schenectady
General Electric Co.

Lighting Units, Industrial

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S. Sangamon St.
Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Western Electric Co., 463 West St.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Lighting Units, Yard and Outdoor

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S. Sangamon St.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Liners, Autoclaves

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

Linings, Ball Mill

N. Y., New York City
Hardinge Conical Mill Co., 120 Broadway

Linings, Tank, Acid Proof

N. Y., New York City
Gutta Percha & Rubber Mfg. Co., 128 Duane St.
Ohio, Akron
Goodrich Co., B. F.
Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.

Linings, Furnaces, Open Hearth

Pa., Pittsburgh
Basic Products Co., 2119 Oliver Bldg.
Colo., Denver
Denver Fire Clay Co.
Mo., St. Louis
Laclede-Christy Clay Products Co.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. J., Perth Amboy
Didier-March Co.
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
Celite Products Co., 11 Broadway
N. Y., New York City
Acheson Graphite Co.

Linings, Rubber

Ohio, Akron
Goodrich Co., B. F.

Linings, Tube Mill

Pa., Catasauqua
Lehigh Car, Wheel & Axle Works

Linoleum Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Liquid Chlorine Apparauts

N. Y., New York City
International Filtration Corp., 115 Broadway

Liquid Fuel Equipment

N. Y., Long Island City
Anthony Co., 138 West Ave.
N. Y., New York City
Best, Inc., W. N., 11 Broadway

Lithopone Apparatus

Mass., Boston
Badger & Sons Co., R. E., 75 Pitts St.
N. Y., Buffalo
Devine Co., J. P.

Loaders (*see Conveying Machinery; Conveying Systems*)

Lockers, Metal

Ill., Aurora
Lyon Metallic Mfg. Co.
Ill., Chicago
Durand Steel Locker Co., 76 W. Monroe St.
Mass., Framingham
Manufacturing Equipment & Engraving Co.
Mo., St. Louis
Medart Mfg. Co., Fred, De Kalb and Potomac Sts.
Ohio, Cincinnati
Edwards Mfg. Co., 306-336 Eggleston Ave.
Pa., Philadelphia
Darby & Sons Co., Inc., Edward, 233-235 Arch St.
R. I., Providence
Narragansett Machine Co.

Logwood Extract Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.

Lubricators

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Crane Co.
Mass., Boston
Crosby Steam Gauge & Valve Mfg. Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.
Pa., Erie
Jarecki Mfg. Co.

Lubricators, Force Feed

Mich., Detroit
McCord Mfg. Co., 2587 E. Grand Blvd.
Ohio, Cincinnati
Powell Co., Wm., 2521 Spring Grove Ave.

Lungmotor

Ill., Chicago
Life Saving Device Co., 564 W. Monroe St.

Macerating Machinery

Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., New York City
Provost Engineering Corp., 220 Broadway

Machinery (*see Specific Headings*)

Machines (*see Specific Headings*)

Magnetos

N. Y., New York City
Bosch Magneto Co., 223-225 W. 46th St.

Magnets, Electro

Wis., Milwaukee
Dings Magnetic Separator Co., 333 South St.

Magnets, Lifting

Ohio, Cleveland
Electric Controller & Mfg. Co., 2698 E. 79th St.

Magnetic Testing Instruments

N. Y., New York City
Holz, Herman A., 1 Madison Ave.

Magnifiers

N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
Williams-Brown & Earle, 918 Chestnut St.

Mailers, for Microscopic Slides

N. Y., New York City
Estes & Co., E. B., 362 5th Ave.

Malting Machinery

Ill., Chicago
Kaestner & Hecht Co.
Mo., St. Louis
Aufrichtig Cooper & Iron Works, 900 S. 3d St.
Wis., Watertown
Dornfield Iron Works

Mandrels

Ohio, Cleveland
Cleveland Twist Drill Co.
Pa., Pittsburgh
National Tube Co., Frick Bldg.

Manganese Dryers

N. Y., New York City
Lamson & Bro., John L., 80 Maiden Lane

Manhole Fittings

Pa., Coatesville
Lukens Iron & Steel Co.
Pa., Pottstown
Glasgow Iron Co.

Manifolds, Acid Proof

N. J., Newark
Acid Proof Iron Products Co., 41 Hermon St.
N. Y., New York City
DurironCastings Co., 90 West St.
General Ceramics Co., 50 Church St.
Ohio, East Akron
Knight, Maurice A.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Manometers

Mich., Detroit
American Blower Co.
N. Y., New York City
Greiner & Co., Emil, Fulton and Cliff Sts.

Masks, Acid or Fume Proof

Ill., Chicago
Chicago Eye Shield Co., 2300 Warren Ave.
Life Savings Devices Co.
N. Y., Elmira
American-La France Fire Engine Co., Inc.
N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.
Multi Metal Separating Screen Co., 255 W. 19th St.
Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.
Pa., Pittsburgh
Draeger Oxygen Apparatus Co., 422 1st Ave.

Masticators

Mich., Saginaw
Werner & Pfleiderer Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Ohio, Columbus
Jeffrey Mfg. Co.

Matting, Rubber

Mass., Boston
Boston Belting Co., 84 Linden Park St.
Ohio, Akron
Goodrich Co., B. F.

Matting, Rubber—*cont.*

Ohio, Cleveland
Mechanical Rubber Co.
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.

Measures

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.

Measures, Accurate

N. Y., New York City
Kohlbusch, Harman, 170 Broadway

Measures, Linear, Accurate

Conn., New Britain
Stanley Rule & Level Co.
N. J., Hoboken
Keuffel & Esser Co.
N. Y., New York City
Wiebusch & Hilger, 106 Lafayette St.

Measures, Precision

N. Y., Troy
Gurley, W. & L. E.

Measuring Machines, for Wire

Pa., Reading
Textile Machine Works
R. I., Providence
New England Butt Co.

Measuring and Mixing Machines

N. Y., New York City
Conveying Weigher Co., 90 West St.

Metallographic Apparatus

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Holz, Herman A., 1 Madison Ave.
Lenz Apparatus Co., Inc., 18 E. 16th St.
Palo Co., 92-94 Maiden Lane
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.
N. Y., Rochester
Bausch & Lomb Optical Co.

Metallurgical Apparatus

Colo., Denver
Dorr Co., 1009 17th St.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Mich., Saginaw
Werner & Pfleiderer Co., Inc.
Mo., St. Louis
Heil Chemical Co., Henry, 210-214 S. 4th St.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Aero Pulverizer Co., 120 Broadway
Dorr Co., The, 17 Battery Pl.
Eimer & Amend, 205-211 3d Ave.
Lenz Apparatus Co., Inc., 18 E. 16th St.
Palo Co., 90 Maiden Lane
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Sq.
N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Metallurgical Laboratory Supplies (*see Laboratory Apparatus and Equipment*)

Metallurgical Research Apparatus (*see also Laboratory Apparatus and Equipment*)

N. Y., New York City
Holz, Herman A., 1 Madison Ave.

Metals, Thermostatic

N. Y., Schenectady
General Electric Co.

Metal Testing Instruments

Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Metal Treating

N. J., Elizabeth
American Metal Treatment Co.

Metanitraniline Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.

Metaphenylenediamine Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest

Metatoluylenediamine Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.

Meteorological Instruments

N. Y., New York City
Standard Scientific Co., 147 Waverly Pl.

Meters, Air

Ill., Chicago
Republic Flow Meters Co., 565 Washington Blvd.
Sargent Steam Meter Co., 2835 Armitage Ave.
Mass., Boston
Bailey Meter Co., 141 Milk St.
Mass., Foxboro
Foxboro Co., Inc.
N. J., Plainfield
New Jersey Meter Co.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Pittsburgh
Bacharach Industrial Instrument Co., 422 1st Ave.

Meters, Condensation

Mich., Detroit
Central Station Steam Co., 710 East Woodbridge St.

Meters, Electric (*see Ammeters, Voltmeters, Wattmeters*)

Meters, Feed Boiler

N. Y., Buffalo
Buffalo Meter Co., 2913 Main St.
N. Y., New York City
Worthington Pump & Machinery Corp., 113 Broadway

Meters, Feed Water

Ill., Chicago
Republic Flow Meters Co., 565 Washington Blvd.
Mich., Detroit
Central Station Steam Co., 710 E. Woodbridge St.
N. J., Camden
Webster & Co., Warren
N. Y., New York City
Worthington Pump & Machinery Corp., 113 Broadway
Ohio, Cincinnati
Cookson Steam Specialty Co., 60-62 Central Ave.

Meters, Flow

Conn., Waterbury
Bristol Co.
Mass., Boston
Spray Engineering Co., 93 Federal St.
Mass., Foxboro
Foxboro Co., Inc.
N. Y., Buffalo
Buffalo Meter Co., 2913 Main St.
N. Y., Schenectady
General Electric Co.

Meters, Gas (*see Meters, Air*)

Meters, Gas Test

Mich., Detroit
Precision Instrument Co.

Meters, Gasoline

Ind., Ft. Wayne
Bowser Co., S. F.
N. Y., Buffalo
Buffalo Meter Co., 2913 Main St.
N. Y., New York City
National Meter Co., 84 Chambers St.
Neptune Meter Co., 90 West St.
Worthington Pump & Machinery Corp., 113 Broadway

Meters, Laboratory Voltage

N. J., Trenton
Pyrolectric Instrument Co., 148 E. State St.

Meters, Measuring Type

N. J., Trenton
Pyrolectric Instrument Co., 148 E. State St.

Meters, Oil (*see also Meters, Gasoline*)

Ill., Chicago
Krutzberg Meter Co., 9 S. Clinton St.
Ind., Ft. Wayne
Bowser & Co., Inc., S. F.
N. Y., Buffalo
Buffalo Meter Co., 2913 Main St.
N. Y., New York City
National Meter Co., 84-86 Chambers St.
Neptune Meter Co., 90 West St.
Worthington Pump & Machinery Corp., 113 Broadway

Meters, Pitot Tube

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
La., New Orleans
Lockett & Co., Ltd., A. M.

Meters, Steam

Ill., Chicago
Republic Flow Meters Co., 565 Washington Blvd.
Mass., Boston
Bailey Meter Co., 141 Milk St.
N. Y., North Tonawanda
American District Steam Co.
Pa., Philadelphia
Biddle, James G., 1211-13 Arch St.

Meters, Water

Mass., Foxboro
Foxboro Co., Inc.
Mass., South Boston
Hersey Mfg. Co.
Mass., Worcester
Union Water Meter Co., 41 Harmon St.
Mich., Detroit
Precision Instrument Co.
N. J., Newark
Gamon Meter Co., 282-296 South St.
N. Y., Buffalo
Buffalo Meter Co., 2913 Main St.
N. Y., New York City
National Meter Co., 84-86 Chambers St.
Neptune Meter Co., 90 West St.
Worthington Pump & Machinery Corp., 115 Broadway
Pa., Philadelphia
Biddle, James G.

Metronomes

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Micrometers

Mass., Ashburnham
Almond Mfg. Co., T. R.
Mass., Athol
Starrell Co., L. S.
N. Y., Syracuse
Syracuse Twist Drill Co.

Microphotographic Apparatus

N. Y., New York City
Holz, Herman A., 1 Madison Ave.
Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Microscopes

Ill., Chicago
Daigger & Co., A., 52 W. Kinzie St.
Gaertner & Co., Wm., 5345 Lake Park Ave.
Sargent & Co., E. H., 125 W. Lake St.
N. Y., Buffalo
Spencer Lens Co., 442 Niagara St.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 211 3d Ave.
King Optical Co., Julius, 10 Maiden Lane
Palo Co.., 90 Maiden Lane
*Scientific Equipment Co., 70 5th Ave.
N. Y., Rochester
Bausch & Lomb Optical Co.
Ohio, Columbus
*Laboratory Supply Co.
Pa., Philadelphia
*Thomas Co., Arthur H., 238 W. Washington Sq.
Williams-Brown & Earle, 918 Chestnut St.

Microscipes, Measuring

N. Y., New York City
Holz, Herman A., 1 Madison Ave.

Microscopes, Reading

Ill., Chicago
Gaertner & Co., Wm., 5345 Lake Park Ave.

Microscopical Apparatus

Ill., Chicago
Laboratory Materials Co., 7404 Calumet Ave.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Microtomes

N. Y., Buffalo
Spencer Lens Co., 442 Niagara St.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Leitz, Ernest, 30 E. 18th St.
N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Milk Bottlers' Machinery (*see Dairy Machinery*)

Milk Can Washing Machines (*see Dairy Machinery*)

Milk Drying Machinery

N. Y., Syracuse
Merrell-Soule Co.

Milk Powder Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Milk Sugar Apparatus

N. Y., Buffalo
Devine Co., J. P.

Milk Testing Apparatus

Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Milling Machines

Pa., Pittsburgh
Crucible Steel Co. of America, 30th and Smallman Sts.

Mills, Assay

N. Y., New York City
Abbe Engineering Co., 220 Broadway
Aero Pulverizer Co., Equitable Bldg.
Beach-Russ Co., 220 Broadway
Pa., Catasauqua
Lehigh Car Wheel & Axle Works

Mills, Attrition

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
Abbe, Paul, 30 Broad St.

Mills, Ball

N. Y., New York City
Abbe Engineering Co., 220 Broadway
Abbe, Paul O., 30 Broad St.
Beach-Russ Co., 220 Broadway
N. Y., New York City
General Ceramics Co., 50 Church St.
Hardinge Conical Mill Co., 120 Broadway
Van Emden Co., H., 145 W. 45th St.
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Pa., Philadelphia
*Stokes Machine Co., F. J.
*Thomas Co., Arthur H., W. Washington Sq.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills, Bone

Del., Wilmington
Walker & Eliott, Inc.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Philadelphia
Pennsylvania Crusher Bldg., Girard Bldg.

Mills, Boring and Turning, Vertical

Wis., Madison
Gisholt Machine Co.

Mills, Crushing, Grinding, Pulverizing

Cal., Los Angeles
Lane Mill & Machinery Co.
Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Raymond Brothers Impact Pulverizer Co., 1311 N. Branch St.
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Sturtevant Mill Co., Harrish Sq.
Mich., Detroit
Mead & Co.
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Abbe, Paul O., 30 Broad St.
Buchanan Co., Inc., C. G., 90 West St.
Eimer & Amend, 3d Ave., 18th to 19th Sts.
N. Y., Utica
Munson Mill Machinery Co., Inc., 405 Broadway
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow, C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Catasauqua
Lehigh Car Wheel & Axle Works
Pa., Muncy
Sprout, Waldron & Co.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.
Thomas Co., Arthur H., W. Washington Sq.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills, Chilean

Colo., Denver
Colorado Iron Works Co.
Ill., Chicago Heights
Chalmers & Williams
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Alliance
Reeves Bros. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills, (Chilean) Low Speed

Cal., Los Angeles
Lane Mill & Machinery Co., 106 W. 3d St.

Mills, Buhr

Colo., Denver
Colorado Iron Works Co., 33d and Wynkoop Sts.
Del., Wilmington
Walker & Elliott, Inc.
Ohio, Cincinnati
Day Co., J. H., 1142 Harrison Ave.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills, Cage

N. Y., New York City
Abbe, Paul O., 30 Broad St.
Abbe Engineering Co., 220 Broadway
Provost Engineering Corp., 220 Broadway
Pa., Muncy
Sprout, Waldron & Co.

Mills, Cinder

N. Y., Brooklyn
Moussette Co., Inc., O. J., 22-26 Clay St.
N. Y., New York City
Abbe Engineering Co., 220 Broadway

Mills, Cogswell

N. Y., New York City
Brown Co., The A. & F., 79 Barclay St.

Mills, Color (*see Mills, Paint*)

Mills, Drug

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Mich., Saginaw
Werner & Pfleiderer, Inc.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Pa., Muncy
Sprout, Waldron & Co.
Pa., Philadelphia
Stokes Machine Co., J. H.
Whitall-Tatum Co.

Mills, Dye (*see Mills, Paint*)

Mills, Emery

Mass., Boston
Sturtevant Mill Co.
Mich., Saginaw
Werner & Pfleiderer, Inc.

Mills, Graphite

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
N. Y., Utica
Munson Mill Machinery Co., Inc., 405 Broadway

Mills, Grinding (*see Mills, Crushing, Grinding, Pulverizing*)

Mills, Hammer-Bar

Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
Abbe, Paul O., 30 Broad St.
Beach-Russ Co., 220 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills, Huntington

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills, Laboratory (*see Laboratory Apparatus and Equipment*)

Mills, Paint

Ill., Chicago
Raymond Bros. Impact Pulverizer Co., 1318 N. Branch St.
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., Brooklyn
Buchanan Co., C. G., 90 West St.
Moussette Co., O. J.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
K. B. Pulverizer Co., Inc., 86 Worth St.
Ohio, Cincinnati
Day Co., J. H., 1149 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O., French and Columbus Sts.

Mills, Pebbel (*see Mills, Ball*)

Mills, Pulverizing (*see Mills, Crushing, Grinding, Pulverizing*)

Mills, Quartz

Cal., Los Angeles
Lane Mill Machinery Co.
Llewellyn Iron Works
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills, Ring Roll

Mass., Boston
Sturtevant Mill Co.

Mills, Roller

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Pa., Muncy
Sprout, Waldron & Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills, Scientific Grinding (*see also Mills, Laboratory*)

N. Y., New York City
Abbe Engineering Co., 220 Broadway
Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.

Mills, Stamp

Cal., Los Angeles
Llewellyn Iron Works
Colo., Denver
Colorado Iron Works Co.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
N. Y., New York City
Mine & Smelter Supply Co., 42 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mills, Tube

Cal., San Francisco
Union Iron Works Co.
Colo., Denver
Colorado Iron Works Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Machinery Utilities Co., Inc., 501 5th Ave.
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Alliance
Reeves Bros. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mineral Filler

N. Y., New York City
Celite Products Co., 11 Broadway
N. Y., Niagara Falls
Acheson Graphite Co.

Mineralogical Apparatus

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52 W. Kinzie St.
Mo., St. Louis
Heil Chemical Co., Henry, 210-214 S. 4th St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Mining Machinery

Cal., Los Angeles
Llewellyn Iron Works
Cal., Oakland
Union Iron Works
Cal., San Francisco
Price Pump & Engine Co., G. W., 33 Stevenson St.
Union Iron Works Co., 214 Spear St.
Colo., Denver
Colorado Iron Works Co.
Dorr Co., 1009 17th St.
Ill., Chicago
Goodman Mfg. Co., Halstead St. and 48th Pl.
Link-Belt Co., W. 39th St. and Stewart Ave.
Standard Diamond Drill Co., First National Bank Bldg.
Sullivan Machinery Co., People's Gas Bldg.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mo., Springfield
Union Iron Works Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Mine & Smelter Supply Co., 42 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Columbus
Jeffrey Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Mining Machinery, Electrical

Ill., Chicago
Goodman Mfg. Co., Halstead St. and 48th Pl.
Morgan-Gardner Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Mixers, Aniline Colors

Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Buffalo
Sowers Mfg. Co.

Mixers, Aniline Colors—*cont.*

N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Lockland
Gedge-Gray Co.

Mixers, Artifical Silk

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Asbestos Compounds

Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Atmospheric

Ill., Rockford
Eclipse Fuel Engineering Co.

Mixers, Baking Powder

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.

Mixers, Batch

Del., Wilmington
Walker & Elliott, Inc.
Mass., Boston
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Brooklyn
Ross & Sons Co., Charles, 146 Classon Ave.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Lockland
Gedge-Gray Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Mixers, Brine Jacketed

Ill., Batavia
Sperry & Co., D. R.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.

Mixers, Carbon

Del., Wilmington
Walker & Elliott, Inc.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Ohio, Lockland
Gedge-Gray Co.

Mixers, Cement

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. N.
Ohio, Lockland
Gedge-Gray Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Smith Co., T. L.

Mixers, Chemical

Colo., Denver
Dorr Co., The
Ill., Batavia
Sperry & Co., D. R.
Md., Baltimore
Bartlett-Hayward Co.
Codd Co., E. J.
Mass., Boston
Badger & Sons Co., E. B.
Holmes & Blanchard Co.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Houchin-Aiken Co., 113 53d St.
Johnson Co., John, 37th and 2d Ave.
N. Y., Buffalo
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Abbe, Paul O., 30 Broad St.
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
N. Y., Rochester
Pfaudler Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Lockland
Gedge-Gray Co.
Pa., Philadelphia
Stokes Machine Co., F. J.

Mixers, Clay

Ill., Chicago
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Md., Baltimore
Poole Engineering & Machine Co.
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
Ohio, Bucyrus
American Clay Machinery Co.
Ohio, Cleveland
Bartlett & Snow Co., C. O.

Mixers, Color

Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Buffalo
Sowers Mfg. Co.
N. Y., New York City
Brown Co., The A. & F., 79 Barclay St.
Machinery Utilities Co., 501 5th Ave.
Ohio, Lockland
Gedge-Gray Co.

Mixers, Concrete

Mich., Jackson
Knickerbocker Co.
N. J., Dunellen
Ransome Concrete Machinery Co.
N. Y., New York City
Conveying Weigher Co., 90 West St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Pa., Pittsburgh
Standard Scale & Supply Co.
Wis., Milwaukee
Chain Belt Co., 734 Park St.
Smith Co., T. L.
Ill., Chicago
Fairbanks-Morse & Co., 900 S. Wabash Ave.

Mixers, Cork Compounds

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Crayon Compositions

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Crucible Paste

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Dry

Del., Wilmington
Walker & Elliott, Inc.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
N. Y., Brooklyn
Moussette Co., Inc., O. J., 26 Clay St.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Pa., Pittsburgh
Standard Scale & Supply Co., 1631 Liberty Ave.

Mixers, Dye (*see Mixers, Color*)

Mixers, Dynamite

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Emery Compositions

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Fertilizer

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Bradley Pulverizer Co.
Sturtevant Mill Co., Harrison Sq.
Md., Baltimore
Poole Engineering & Machine Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.

Mixers, Glass Enameled

N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Mixers, Granulation

Mich., Detroit
Colton Co., Arthur

Mixers, Graphite

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Kligerit

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Lead

Mich., Saginaw
Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Mixers, Lime

Mich., Saginaw
Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.
Ohio, Lockland
Gedge-Gray Co.

Mixers, Linoleum

Mich., Saginaw
Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.

Mixers, Liquid

Del., Wilmington
Walker & Elliott, Inc.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
N. Y., New York City
Brown Co., The A. & F., 79 Barclay St.
Machinery Utilities Co., Inc., 501 5th Ave.
N. Y., Rochester
Pfaudler Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Lockland
Gedge-Gray Co.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Mixers, Mass

Del., Wilmington
Walker & Elliott, Inc.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Lockland
Gedge-Gray Co.

Mixers, Nitrocellulose

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Paint (*see Paint Machinery*)

Mixers, Paste

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Buffalo
Sowers Mfg. Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Lockland
Gedge-Gray Co.

Mixers, Pill Masses

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Powerful Mass

Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.

Mixers, Putty

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Rotary

N. Y., Brooklyn
Moussette Co., Inc., O. J., 22-26 Clay St.

Mixers, Rubber

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Rubber Cement

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Rubber Solution

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Smokeless Powder

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Steam Jacketed

Ill., Batavia
Sperry & Co., D. R.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Buffalo
Sowers Mfg. Co., 1298-1310 Niagara St.
Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.

Mixers, Storage Battery Masses

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Tablet Masses

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Mixers, Tank

Del., Wilmington
Walker & Elliott, Inc.
Mich., Saginaw
Werner & Pfleiderer Co., Inc.
N. Y., Rochester
Pfaudler Co.
Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.
Ohio, Lockland
Gedge-Gray Co.

Mixers, Vacuum

Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Buffalo
Devine Co., J. P.

Mixers, Viscose

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St..

Mixers, Water

Mass., Framingham
Manufacturing Equipment & Engraving Co.

Moisteners

Mass., Boston
Sturtevant Co., B. F.
Ohio, Cambridge
Cambridge Glass Co.

Moisture Testers

N. Y., New York City
Eimer & Amend, 205-211 3d Ave.

Molding Powders

N. J., Bloomfield
Condensite Co. of America

Molding Sheet Plastics

N. J., Bloomfield
Condensite Co. of America

Molds

Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22d St.
N. Y., New York City
General Bakelite Co., 2 Rector St.
N. Y., Niagara Falls
Acheson Graphite Co.
Pa., Erie
Continental Rubber Works

Monitors

Pa., Mechanicsburg
Scientific Instrument & Electrical Machine Co.

Montejus

N. Y., New York City
General Ceramics Co., 50 Church St.
Van Emden Co., H., 145 W. 45th St.
Ohio, East Akron
Knight, Maurice A.
Pa., South Bethlehem
Behtlehem Foundry & Machine Co.

Mortars

Ill., Chicago
Sperry & Co., D. R.
England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cambridge
Cambridge Glass Co.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Sq.

Mortars, Tool Steel

Pa., Pittsburgh
Scientific Materials Co., 711 Forbes St.

Motor Generator Sets

N. Y., Schenectady
General Electric Co.
Ohio, Springfield
Robbins & Meyers Co.

Motor Generator Sets—*cont.*

Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Motors

N. Y., Schenectady
General Electric Co.

Motors, Electric

N. Y., Schnectady
General Electric Co.
Ohio, Springfield
Robbins & Meyers Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Motors, Induction

Ohio, Cleveland
Lincoln Electric Co.

Motors, Industrial

N. Y., Schnectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Moulds

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Pa., Pittsburgh
Rosedale Foundry & Machine Co., Columbus and Preble Aves.

Moulds, Ingot

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

Muffles

Cal., San Francisco
Braun-Knecht-Heimann Co., 584 Mission St.
Colo., Denver
Denver Fire Clay Co.
Mass., Worcester
Morton Co.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. J., Newark
Baker & Co., Inc.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Sidio Co. of America, Inc., 37 Murray St.
N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.
N. Y., Niagara Falls
Carborundum Co.
Acheson Graphite Co.
International Acheson Graphite Co.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Muffles, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph

Muffles, Platinum

N. J., Newark
Bishop & Co., Inc.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Muffles, Refractory

Pa., Pittsburgh
Crucible Steel Co. of America, 30th and Smallman Sts.

Nail Machinery, Wire

Mass., Worcester
Sleeper & Hartley, Inc., 68 Prescott St.

Naphtha Coal Tar Apparatus

(see Naphthalene Plants)

Naphthalene Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
N. Y., Buffalo
Devine Co., J. P.

Napthalene Crystals Apparatus

N. Y., Buffalo
Devine Co., J. P.

Naphthalene Di-Nitro Apparatus

N. Y., Buffalo
Devine Co., J. P.

Naphthalene Momo and Bi-Nitro Apparatus

N. Y., Buffalo
Devine Co., J. P.

Naphthalene Mom-Nitro Apparatus

N. Y., Buffalo
Devine Co., J. P.

Needles, Vicat

N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.

Netting, Branduster

Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Nigrosine Apparatus

N. Y., Buffalo
Devine Co., J. P.

Nitrators

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P.
N. Y., New York City
Bethlehem Foundry & Machine Co., 149 Broadway
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Stevens Brothers, 149 Broadway
N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.
N. Y., Rochester
Pfaudler Co., The
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Nitrobenzol Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
N. Y., New York City
Kalbperry Corp., 31 Union Square, W.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Nitrocellulose Apparatus

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
General Ceramics Co., 50 Church St.
Kalbperry Corp., 31 Union Sq., W.
N. Y., Rochester
Pfaudler Co., The

Nitrogen Determination Apparatus (*see Nitrometers*)

Nitroglycerin Machinery

Mich., Saginaw
Werner & Pfleiderer Co., Inc.
N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.

Nitrometers

England, Birmingham
Belchers (Standley) & Mason, Ltd., Church St.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 41st St.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 719 Forbes St.

Nitrotoluol Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Devine Co., J. P.

Nozzles (*Classified lists follow*)

Nozzles, Aerating

Mass., Boston
Spray Engineering Co., 93 Federal St.
N. Y., Buffalo
Buffalo Forge Co.

Nozzles, Chemical

Mass., Boston
Callahan Co., C., 127 Purchase St.
N. Y., Buffalo
Buffalo Forge Co.
Carrier Air Conditioning Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Hayward & Co., S. F., 39 Park Pl.

Nozzles, Fire

Mass., Boston
Morse & Son, Inc., Andrew J., 221 High St.

Nozzles, Graphite

Pa., Philadelphia
Seidel, Inc., R. B., 1322 Callowhill St.

Nozzles, Spray

Ill., Chicago
Star Brass Works, 3114-3120 Carroll Ave.
Mass., Boston
Spray Engineering Co., 93 Federal St.
N. Y., Buffalo
Carrier Air Conditioning Co., 490 Broadway
N. Y., New York City
Cooling Tower Co., Inc., 17 John St.

Odometers

Conn., Hartford
Veeder Mfg. Co.
N. J., Hoboken
Keuffel & Esser Co.

Ohmmeters (*see Electric Measuring Instruments*)

Oil Burning Equipment

Cal., San Francisco
Johnson Co., S. T., 1337 Mission St.
Ill., Chicago
National Supply Co., 416 W. Grand Ave.
La., New Orleans
Lockett & Co., Ltd., A. M.
Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
Mass., Springfield
Gilbert & Barker Mfg. Co.
N. Y., Long Island City
Anthony Co., 138 West Ave.
N. Y., New York City
Best, Inc., W. N., 11 Broadway
Quigley Furnace Specialties Co., Inc., 26 Courtlandt St.
Ohio, Cincinnati
Macleod Co., 2232 Bogen St.

Oil Filters (*see Filters, Oil*)

Oil Flotation Ore Dressing Machinery

Canada, Cobalt, Ontario
Groch Centrifugal Flotation, Ltd.

Oil Handling Devices

Ft. Wayne, Ind.
Bowser & Co., Inc., S. F.

Oil Refinery Equipment

Del., Wilmington
Pusey & Jones
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. Y., Buffalo
Sowers Mfg. Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
Ohio, Niles
Standard Boiler & Plate Iron Co.
Pa., Sharon
Petroleum Iron Works Co.
Texas, Dallas
Murray Co.

Oil Testing Apparatus

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18-88 33d St.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
Olsen Testing Machine Co., Tinius, 500 N. 12th St.
Riehle Bros., Testing Machine Co., 1424 N. 9th St.
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711 Forbes

Oilers, Engine, Machine

Conn., Branford
Malleable Iron Fittings Co.

Oilers, Gasoline Engine

Conn., Branford
Malleable Iron Fittings Co.

Optical Instruments

Mass., Southbridge
American Optical Co.
N. Y., Rochester
Bausch & Lomb Optical Co.

Ore Machinery

Cal., Los Angeles
Llewellyn Iron Works
Colo., Denver
Colorado Iron Works Co.
Dorr Co., 1009 17th St.
Ill., Chicago
Link-Belt Co.
N. Y., New York City
Mine & Smelter Supply Co., Inc., 42 Boradway

Ore Machinery—*cont.*

N. Y., New York City—cont.
Robins Conveying Belt Co., Park Row Bldg.
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Ore Roasting Plants

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
N. Y., New York City
Kalpberry Corp., 31 W. Union Sq.
N. Y., Schenectady
General Electric Co.

Ore Separators

Mass., Boston
Huff Electrostatic Separator Co., 60 India St.
Sturtevant Mill Co., Harrison Sq.
N. Y., Troy
Magnetic Separator Co.

Ore Washing Machinery

Colo., Denver
Colorado Iron Works Co.
Dorr Co., The, 1009 17th St.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Ovens, Baking

Mich., Detroit
Detroit Heating & Lighting Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Gehnrich Indirect Heat Oven Co., Inc., 60-63 Franklin Ave.
N. Y., Schenectady
General Electric Co.
Pa., Pittsburgh
Hagan Co., George J., 401 People's Bank Bldg.

Ovens, By-Product Coke (*see Coke Ovens, Retort*)

Pa., Pittsburgh
Coal & Coke By-Products Co., 421 Wood St.

Ovens, Coke (*see also Coke Ovens, Retort*)

N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.

Ovens, Constant Temperature Baking

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
N. J., Newark
Thermo Electric Instrument Co.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.

Ovens, Constant Temperature, Freas Patents

N. J., Newark
Thermo Electric Instrument Co.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.

Ovens, Despatch Electric

N. Y., New York City
Palo Co., 90 Maiden Lane

Ovens Draw Plate

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Ovens, Core

Mich., Detroit
Detroit Heating & Lighting Co.
Mich., Saginaw
Werner & Pfleiderer, Inc.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Gehnrich Indirect Heating Oven Co., 60 Franklin Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
N. Y., New York City
Eimer & Amend, 3d Ave., 18th to 19th Sts.

Ovens, Drying, Hot Air

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.

Ovens, Drying (*see Ovens, Core*)

Ovens, Drying, Water Bath

N. Y., Rochester
Wilmot Castle Co., 800 St. Paul St.

Ovens, Electric

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.

Ovens, Electric—*cont.*

N. J., Newark
Thermo Electric Instrument Co., 8 Johnson St.
Ill., Chicago
Sargent & Co., E. H., 125-127 W. Lake St.
N. Y., New York City
Electric Heating Apparatus Co., 25 Church St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Ovens, Enameling

Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Brooklyn
Gehnrich Indirect Heat Oven Co., Inc., 60 Franklin Ave.
N. J., Jersey City
Koven & Bro., L. O.
Quigley Furnace Specialties Co., Inc., 25 Church St.
Pa., Pittsburgh
Hagan Co., George J., 401 People's Bank Bldg.

Ovens, Fuel Gas

N. Y., New York City
American Gas Furnace Co., 24 John St.
Connelly Iron Sponge & Governor Co., 228 Fulton St.
Quigley Furnace Specialties Co., Inc., 25 Church St.

Ovens, Gas

Mich., Detroit
Detroit Heating & Lighting Co.
N. Y., Brooklyn
American Gas Furnace Co., 24 John St.
Gehnrich Indirect Heat Oven Co., Inc., 60 Franklin St.

Ovens, Laboratory

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Ill., Chicago
*Sargent & Co., E. H., 125-127 W. Lake St.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Brooklyn
Gehnrich Indirect Heat Oven Co., Inc., 60 Franklin Ave.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Watters Laboratories, Cons., 55 5th Ave.
N. Y., Rochester
Wilmot Castle Co., 800 St. Paul St.
Pa., Philadelphia
*Boekel & Co., Wm., 518 Vine St.
*Thomas Co., Arthur H., W. Washington Sq.

Ovens, Japanning (*see Ovens, Baking; Ovens, Enameling*)

Ovens, Lacquering (*see Ovens, Baking, Ovens, Enameling*)

Ovens, Paraffin

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.

Ovens, Vacuum

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Mojonnier Bros. Co., 833 W. Jackson Blvd.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Saginaw
Werner & Pfleiderer Co., Inc.
N. J., Newark
Thermo Electric Instrument Co.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
N. J., Newark
Thermo Electric Instrument Co.

Ovens, Varsity

N. Y., New York City
Eimer & Amend, 205-211 3d Ave.

Oxyacetylene Apparatus

Ill., Chicago
Liquid Carbonic Co.
Mass., Boston
General Welding & Equipment Co.
N. Y., New York City
Air Reduction Co., Inc., 120 Broadway
Linde Air Products Co., 42d St. Bldg.

Oxyacetylene Gauges (*see Gauges, Oxyacetylene*)

Oxyacetylene Supplies

Mass., Boston
Waterhouse Mfg. Co.

Oxyacetylene Cutting Appliance

Mo., St. Louis
Modern Engineering Co., 23d and Walnut Sts.

Oxyacetylene Welding Equipment

Ill., Chicago
Burdett Mfg. Co., St. Johns Ct. and Fulton St.
Mo., St. Louis
Modern Engineering Co., 23d and Walnut Sts.

Oxygen Apparatus

Ohio, Cleveland
Ohio Chemical & Mfg. Co.

Oxygen Breathing Apparatus, Self-Contained

N. Y., Elmira
American-La France Fire Engine Co., Inc.

Oxygen Reviving Apparatus

N. Y., Elmira
American-La France Fire Engine Co., Inc.
N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.

Oxygen Testing Apparatus

N. Y., New York City
International Oxygen Co., 115 Broadway

Oxygenators

N. Y., Buffalo
Oxygenator Co., Mooney Bldg.

Oxyhydrogen Gas Generating Apparatus

Ill., Chicago
Burdett Mfg. Co., St. Johns Ct. and Fulton St.

Oxyhydrogen Welding Equipment

Ill., Chicago
Burdett Mfg. Co., St. Johns Ct. and Fulton St.

Ozonators

N. Y., New York City
Schwneker, Inc., W. M., 340-344 E. 92d St.

Package Filling Machinery

Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.

Packing, Acid Proof, Chamber Tower

N. Y., New York City
General Ceramics Co., 50 Church St.
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Packing, Fibre

Del., Wilmington
American Vulcanized Fibre Co.
Delaware Hard Fibre Co.
Mass., Boston
Fibre Finishing Co., 27 State St.

Packing, Leather and Rawhide

Mass., Worcester
Graton & Knight Mfg. Co.
N. Y., New York City
Schieren & Co., Chas. A., 30-38 Ferry St.

Packing, Rod

Ohio, Akron
Goodrich Co., B. F.
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.

Packing, Rubber

N. Y., New York City
Gutta Percha & Rubber Mfg. Co., 127 Duane St.
Jenkins Brothers, 80 White St.
Ohio, Akron
Goodrich Co., B. F.
Goodyear Tire & Rubber Co.
Pa., Erie
Continental Rubber Works
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.

Packing, Sheet (*see also Packing, Rubber*)

N. Y., New York City
Johns-Manville Co., H. W., Madison Ave. and 41st St.

Packing Sheet—*cont.*

Ohio, Lockland
Carey Mfg. Co., Philip
Pa., Franklin
Franklin Mfg. Co.

Packing, Sheet, for Hydraulic

Pa., Philadelphia
Endura Mfg. Co., 63d St. and Eastwick Ave.

Packing, Sheet, for Oil

Pa., Philadelphia
Endura Mfg. Co., 63d St. and Eastwick Ave.

Pails, Fibre

N. Y., New York City
Cordley & Hayes, 7 Leonard St.

Paint Machinery

Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Holmes & Blanchard Co., 31 State St.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Jersey City
Koven & Bro., L. O.
N. Y., Buffalo
Sowers Mfg. Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., Muncy
Sprout, Waldron & Co.

Palau Ware

N. Y., New York City
Eimer & Amend, 205-211 3d Ave.

Pans, Acid

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Preble Machine Works, 106th and Indiana Blvd.
Mass., Boston
Badger & Sons Co., E. B.
N. J., Burlington
United States Cast Iron, Pipe & Foundry Co.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Corning
Corning Glass Works
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Thermal Syndicate, Ltd., 51 E. 41st St.
Van Emden Co., H., 145 W. 45th St.
N. Y., Rochester
Pfaudler Co., The
Ohio, Akron
U. S. Stoneware Co.
Weeks, W. J.
Ohio, East Akron
Knight, Maurice A.
Pa., Fullerton
Lehigh Foundry Co.
Pa., Philadelphia
Philadelphia Roll & Machine Co., S. 23d and Washington Ave.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Pans, Acid Crystallizing

N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, East Akron
Knight, Maurice A.

Pans, Acidulating

Del., Wilmington
Walker & Elliott, Inc.
Ind., Aurora
Stedmans Foundry & Machine Works
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, East Akron
Knight, Maurice A.

Pans, Amalgam

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.
N. Y., New York City
Mine & Smelter Supply Co., Inc., 42 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Pans, Boat

England, Widnes
Widnes Foundry Co., Ltd., Thee

Pans, Calorimeter

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Pans, Chemical Crystallizing, Stoneware

N. Y., New York City
General Ceramics Co., 50 Church St. Sts.
Ohio, East Akron
Knight, Maurice A.

Pans, Crystallizing, Metal

Mass., Boston
Badger & Sons Co., R. E., 75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry & Fillmore Aves.
Devine Co., J. P.
Sowers Mfg. Co.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Williamsport
Valley Iron Works

Pans, Decomposing

England, Widnes
Widnes Foundry Co., Ltd., The

Pans, Drip

Ill., Aurora
Lyon Metallic Mfg. Co.
Ill., Chicago
Katzinger Co., Edward, 120 N. Peoria Ave.
Mass., Boston
Badger & Sons Co., R. E., 75 Pitts St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Pans, Enameled

N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Pans, Evaporating

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.
England, Widnes
Widnes Foundry Co., Ltd., The
Ill., Chicago
Schaar & Co., 1025 S. State St.
N. J., Burlington
Stuart & Peterson
N. J., Newark
Acid Proof Iron Products Co., Inc.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Sowers Mfg. Co.
N. Y., Corning
Corning Glass Works
N. Y., New York City
Duriron Castings Co., 90 West St.
Ohio, East Akron
Knight, Maurice A.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Pans, Furnace

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

Pans, Grinding

Ill., Batavia
Sperry & Co., D. R.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Sowers Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Pans, Hydrochloric Concentrating

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Pans, Incinerating, Platinum

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Pans, Jacketed

England, Stanningley, nr. Leeds
Leeds & Bradford Boiler Co., Ltd., The

Pans, Mixing

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.
Ill., Batavia
Sperry & Co., D. R.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Sowers Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pans, Porcelain Lined

N. J., Burlington
Stuart & Peterson Co.

Pans, Revolving

Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Blvd.

Pans, Soap

England, Stanningley, nr. Leeds
Leeds & Bradford Boiler Co., Ltd., The

Pans, Steam Jacketed

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.
Mich., Muskegon
Muskegon Boiler Works

Pans, Steam Jacketed—*cont.*

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Sowers Mfg. Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Pans, Vacuum

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.
Swenson Evaporator Co., 935 Monadnock Bldg.
Mass., Boston
Badger & Sons Co., E. B., 63 Pitts St.
Mass., Fall River
Scott & Co., Ernest, P. O. Box, 259
Mich., Detroit
Detroit Heating & Lighting Co.
Mich., Manistee
Manistee Iron Works Co.
N. J., Burlington
Stuart & Peterson Co.
N. J., East Carteret
Wheeler Condenser & Eng. Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Devine Co., J. P.
Sowers Mfg. Co., 1300 Niagara St.
Zaremba Co., Niagara Life Ins. Co. Bldg.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Mott Iron Works, J. L., 118 5th Ave.
Sanborn Evaporator Co., 87 Wall St.
N. Y., Rochester
Pfaudler Co., The
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Fullerton
Lehigh Foundry Co.
Scotland, Glasgow
Blair, Campden & McLean, Ltd., Woodville St., Govan
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Sommers & Sons Co., Galena and 31st

Pans, Vacuum (Steam Jacketed)

N. Y., Buffalo
Devine Co., J. P.
N. Y., Rochester
Pfaudler Co., The

Pantographs

N. J., Jersey City
Koven & Bro., L. O', 154 Ogden Ave.

Paper, Abrasive

N. Y., Niagara Falls
Carborundum Co.

Paper, Blue Print

Ill., Chicago
Pease Co., C. F., 166 W. Adams St.

Paper, Chemical

N. Y., New York City
Fougera & Co., E., 90 Beekman St.
Wash., Everett
Everett Pulp & Paper Co.

Paper, Dialyser

N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.

Paper, Filter

Cal., Berkeley
*University Apparatus Co.
Ill., Chicago
*Central Scientific Co., 460 E. Onio St.
*Daigger & Co., A., 52–56 W. Kinzie St.
Mo., St. Louis
*Heil Chemical Co., Henry, 210–214 S. 4th St.
N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.
Cooper & Co., Chas , 194 Worth St.
Eimer & Amend, 205–211 3d Ave.
Palo Co., 90–94 Maiden Lane
N. Y., Rochester
Bausch & Lomb Optical Co.
Ohio, Columbus
Laboratory Supply Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co., 410 Race St.
Williams, Browne & Earle
Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Paper, Glassine

Pa., Bridgeport
Diamond State Fibre Co.

Paper, Insulating

Mo., St. Louis
General Roofing Mfg. Co.

Paper Mill Machinery

Conn., Ansonia
Farrell Foundry & Machinery Co.
Del., Wilmington
Pusey & Jones Co.
Ill., Chicago
Stroud & Co., E. H., 928-934 Fullerton Ave.
Swenson Evaporator Co., Monadnock Bldg.
Mass., Holyoke
Holyoke Machine Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Newark
Currier & Sons, Cyrus
N. Y., Ticonderoga
Ticonderoga Machine Works
N. Y., New York City
Abbe, Paul O., New St. and Exchange Pl.
Abbe Engineering Co., 220 Broadway
N. Y., Rochester
Knowlton Co., M. D.
Ohio, Akron
Biggs Boiler Works Co.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Hamilton
Black-Clawson Co.
Ohio, Sandusky
Sandusky Foundry & Machine Co.
Pa., Chester
Wetherill & Co., Robert
Wis., Beloit
Beloit Iron Works

Paper, Parchment

N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.

Paper Pulp Machinery (*see Paper Mill Machinery*)

Paper, Specialized

Pa., Bridgeport
Diamond State Fibre Co.

Paper Testing Apparatus

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Paraamidophenol Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.

Paranitraniline Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.

Parchment, Vegetable

Pa., Bridgeport
Diamond State Fibre Co.

Parchmoid

Pa., Bridgeport
Diamond State Fibre Co.

Pasteurizing Apparatus

Conn., Derby
Dairy Machinery & Construction Co., Inc.
Ia., Cedar Rapids
Cherry Co., J. G.
Ill., North Chicago
Davis Watkins Dairymens Mfg. Co.
Mass., Boston
International Equipment Co.
Mo., St. Louis
Barry-Wehmiller Mach. Co., 6501 Florissant Ave.
N. Y., Long Island City
Jensen Creamery Machinery Co.
Ohio, Canton
Advance Dairy Machinery Co.
Ohio, Cleveland
Loew Mfg. Co.
Wis., Milwaukee
Milwaukee Dairy Supply Co.

Patches, Gummed

Mass., Framingham
Dennison Mfg. Co.

Penetrometers

Ill., Chicago
Daigger & Co., A., 52-56 W. Kinzie St.
N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Percolators (*Classified lists follows*)

Percolators, Chemical

Mich., Detroit
Detroit Heating & Lighting Co.
N. J., Burlington
Stuart & Peterson Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Burkhard Inc., Thomas, 494 Flushing Ave.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Duriron Castings Co., 90 Church St.
General Ceramics Co., 50 Church St.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.

Percolators, Grease

Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Ohio, Cleveland
Bartlett & Snow Co., C. O., French and Columbus Sts.
Pa., Philadelphia
Kutztown Foundry & Machine Co., Morris Bldg.

Percolators, Pharmaceutical

Mass., Boston
Badger & Sons Co., E. B., 75 Pitts St.
N. Y., Buffalo
Devine Co., J. P.
Pa., Philadelphia
Stokes Machine Co., F. J.

Pestles (*see also Mortars*)

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.
Ill., Joliet
Humphrey & Sons
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Cambridge
Cambridge Glass Co.
Pa., Carbondale
Griebel Instrument Co.

Petrographic Apparatus

N. Y., Rochester
Bausch & Lomb Optical Co.

Pharmaceutical Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Buffalo
Devine Co., J. P.
N. Y., Rochester
Pfaudler Co., The
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.
Whitall-Tatum Co.

Phenacetin Apparatus

N. Y. Buffalo
Devine Co., J. P.

Phenol Apparatus and Plants

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummis Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
Farrar & Trefts, 47 Perry St.
N. Y., New York City
Kalpberry Corp., 31 Union Sq., W.

Phenolphthalein Apparatus

N. Y., Buffalo
Devine Co., J. P.

Phosphorizers, Graphite

Mass., Taunton
Taunton Crucible Co.
N. J., Jersey City
Dixon Crucible Co., Joseph
Gautier & Co., J. H.
N. Y., New York City
Foreign Crucibles Corp., Ltd., 51 Church St.
N. Y., Niagara Falls
Acheson Graphite Co.
International Acheson Graphite Co.
Pa., Philadelphia
Ross-Tacony Crucible Co.

Photographic Apparatus

Mo., St. Louis
Cramer Dry Plate Co., G., Lemp and Shenandoah Aves.
Hammer Dry Plate Co., Ohio Ave. and Miama St.
N. Y., New York City
Fuerst Bros. & Co., 2 Stone St.
Gennert, G., 24 E. 13th St.
N. Y., Rochester
Eastman Kodak Co., 243 State St.

Photographic Films Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Photographic Lenses

N. Y., Rochester
Bausch & Lomb Optical Co.

Photometers

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Connelly Iron Sponge & Governor Co., 227 Fulton St.
Palo Co., 90 Maiden Lane
Pa., Philadelphia
Leeds & Northrup Co., 4901 Stenton Ave.

Photometers, Jet

N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.

Photomicrographic Apparatus

Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
N. Y., New York City
Lenz Apparatus Co., Inc., 18 E. 16th St.
Eimer & Amend, 205-211 3d Ave.
Palo Co., 90-94 Maiden Lane
N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Photomicroscopical Apparatus

Pa., Philadelphia
Williams-Brown & Earle, 918 Chestnut St.

Physical Apparatus (*see Chemical Equipment and Apparatus; see Specific Headings*)

Physiological Apparatus (*see Chemical Equipment and Apparatus; see Specific Headings*)

Pipe, Antimonial Lead

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway

Pipe, Block Tin

Ill., Chicago
Eagle Picher Lead Co., 208 S. La Salle St.
Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway
N. Y., New York City
United Lead Co., 111 Broadway

Pipe, Cast Iron, Acid Resisting

N. Y., New York City
Green Fuel Economizer Co., 90 West St.

Pipe, Cast Iron, Enameled

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

Pipe, Chemical Lead

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway
N. Y., New York City
National Lead Co., 111 Broadway

Pipe, Acid Proof

Cal., San Francisco
Gladding, McBean & Co., 148 Natoma St.
N. J., Newark
Acid Proof Iron Products Co., Inc., 41 Hermon St.
N. Y., New York City
Bethlehem Foundry & Machine Co., 149 Broadway
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Sidio Co. of America, 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Ohio, Akron
U. S. Stoneware Co.

Pipe, Cast Iron, Glass Lined

Pa., Philadelphia
Wood & Co., R. D., 400 Chestnut St.

Pipe, Copper Lined, Iron

N. Y., New York City
United Lead Co., 111 Broadway

Pipe Fittings

Ill., Chicago
Raymond Lead Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Ohio, Cleveland
Cleveland Brass Mfg. Co., 4606-4700 Hamilton Ave.

Pipe, Lead

N. Y., New York City
United Lead Co., 111 Broadway
Du Bois & Co., F. H., 245 9th Ave.
Pa., Coatesville
Coatesville Boiler Works

Pipe, Lead Covered Iron

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway

Pipe, Lead Lined

N. Y., New York City
United Lead Co. 111 Broadway

Pipe, Lead Lined Iron

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway
N. Y., New York City
United Lead Co., 111 Broadway

Pipe Line Measures, Self Registering

Ind., Ft. Wayne
Bowser & Co., Inc., S. F.

Pipe, Pile, Pure Tin

Pa., New Brighton
Standard Specialty & Tube Co.

Pipe, Plain and Socket

N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.

Pipe, Riveted

Cal., Los Angeles
Llewellyn Iron Works
Mass., Boston
Sturtevant Co., B. F.
Mich., Muskegon
Muskegon Boiler Works
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Farrar & Trefts, 47 Perry St.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Ohio, Akron
Biggs Boiler Works
Pa., Coatesville
Coatesville Boiler Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pipe, Steam

Mich., Muskegon
Muskegon Boiler Works

Pipe Sheet Lead

Ill., Chicago
Raymond Lead Co.
N. Y., New York City
United Lead Co., 111 Broadway

Pipe, Steel, Glass Enameled

N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Pipe, Stoneware

N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Pipe Supports

N. Y., New York City
Kellogg Co., The M. W., 90 West St.

Pipe, Tin Lined

N. Y., New York City
National Lead Co., 111 Broadway
United Lead Co., 111 Broadway

Pipe, Tin Lined, Iron

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway

Pipe, Tower, Stoneware

Ohio, Akron
Weeks, A. J.

Pipe, Wood

Cal., San Francisco
Pacific Tank & Pipe Co.
Ky., Louisville
Caldwell Co., W. E.
Md., Baltimore
Baltimore Cooperage Co., The
Mich., Kalamazoo
Kalamazoo Tank & Silo Co.
N. Y., New York City
Acme Tank Co., 39 Courtlandt St.
Ohio, Cincinnati
Hauser, Stander Tank Co.
Ore., Portland
National Tank & Pipe Co., 275 Oak St.

Pipe, Wrought Steel, Lap Welded

N. Y., New York City
Kellogg Co., The M. W., 90 West St.

Pipe Systems, Ammonia

Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Pipe Systems, Power Plants

N. Y., New York City
Kellogg Co., The M. W., 90 West St.

Pipes and Fittings, Acid Proof

N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, East Akron
Knight, Maurice A.

Pipes and Fittings, Lead Lined

N. Y., New York City
United Lead Co., 111 Broadway

Pipes and Fittings, Lead Lined Iron

N. Y., New York City
United Lead Co., 111 Broadway

Pipes and Fittings, Steam Jacketed

N. Y., Buffalo
Devine Co., J. P.

Pipe and Fittings, Stoneware

N. Y., New York City
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, East Akron
Knight, Maurice A.

Pipettes (*see also Glassware, Chemical*)

England, Birmingham
Belchers (Standley) & Mason, Ltd., Church St.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Pa., Carbondale
Griebel Instrument Co.

Pipettes, Gas

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Pitchers, Acid Proof

Ohio, East Akron
Knight, Maurice A.

Pitchers, Stoneware

N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
Weeks, A. J.

Pitot Tubes

Mich., Detroit
American Blower Co.

Planimeters

N. Y., New York City
Robertson & Son, James L., 78-80 Murray St.
Pa., Corry
Trill Indicator Co.

Plants (*see Specific Headings*)

Plants, Chemical

N. C., Charlotte
Chemical Construction Co.
Ohio, East Akron
Knight, Maurice A.
Ohio, Plymouth
Fate Co., J. D.

Plant Construction, Chemical

Ill., Chicago
Block Chemical Laboratories, 208 S. La Salle St.

Plant Equipment, Chemical, Special

N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.

Plates

N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.
N. Y., Niagara Falls
Acheson Graphite Co.

Plates Activated Sludge, Air Diffusing

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Plates, Air Diffusing

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Plates, Alundum, for Filtering

Mass., Worcester
Norton Co., New Bond St.

Plates, Aerating

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Plates, Distributing, Tower, Stoneware

N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.

Plates, Filter, Acid Proof (*see Filter Plates, Acid Proof*

Plates, Flotation

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Plates, Gas Diffusing

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Plates, Glass

N. Y., Corning
Corning Glass Works

Plates, Hot

Mich., Detroit
Hoskins Mfg. Co., 453-471 Lawton Ave.
N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Plates, Porous, Acid Proof

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Platinum, Alloys

Pa., Malvern
Bishop & Co., Platinum Works, J.

Platinum, Assayers

Pa., Malvern
Bishop & Co., Platinum Works, J.

Platinum, Contacts

Pa., Malvern
Bishop & Co., Platinum Works, J.

Platinum Apparatus

N. J., Newark
American Platinum Works
Baker & Co., Inc., 54 Austin St.
N. Y., New York City
American Smelting & Refining Co., 120 Broadway
Eimer & Amend, 205-211 3d Ave.
United States Metals Refining Co., 120 Broadway
N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Malvern
Bishop & Co., J., Platinum Works
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co.

Platinum Sheet, Perforated

N. J., Newark
Baker & Co., Inc., 54 Austin St.

Platinum, Sheet and Foil

N. J., Newark
American Platinum Works
Baker & Co., Inc., 54 Austin St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Malvern
Bishop & Co., Platinum Works, J.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Platinum, Silver

N. J., Newark
Baker & Co., Inc., 54 Austin St.

Platinum, Dishes

N. J., Newark
Baker & Co., Inc., 54 Austin St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Malvern
Bishop & Co., Platinum Works, J.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Platinum, Electrodes

N. J., Newark
Baker & Co., Inc., 54 Austin St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Malvern
Bishop & Co., Platinum Works, J.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Platinum, Filter Cones

N. J., Newark
Baker & Co., Inc., 54 Austin St.

Platinum Gauze

N. J., Newark
Baker & Co., Inc., 54 Austin St.

Platinum Gold

N. J., Newark
Baker & Co., Inc., 54 Austin St.

Platinum Salts

N. J., Newark
Baker & Co., Inc., 54 Austin St.

Platinum Ware

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., 54 Austin St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Malvern
Bishop & Co., Platinum Works, J.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Platinum, Wire

N. J., Newark
Baker & Co., Inc., 54 Austin St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Platinum, Wire—*cont.*

Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Sq.

Pliers

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Plugs, Fusible

Mass., Boston
Plouff Co., 1558 River St., Hyde Park
N. Y., Buffalo
Farrar & Trefts, 47 Perry St.
N. Y., New York City
Connelly Iron Sponge & Governor Co., 127 Duane St.

Plungers, Pump, Stoneware

N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Polariscopes

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Mich., Ann Arbor
Eberbach & Son Co.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 211 3d Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Porcelain Ware

Colo., Denver
Denver Fire Clay Co.
Colo., Golden
Herold China & Pottery Co.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger, A., & Co., 52-56 W. Kinzie St.
Mass., Boston
*Knott Apparatus Co., L. E., Cambridge "A" Station
*Schaar & Co., 1025 S. State St.
N. J., Burlington
Stuart & Peterson Co.
N. Y., New York City
American Apparatus Corp., 9-11 E. 16th St.
*Berge, J. & H., 95 John St.
*Bernard & Co., F. J., 70 Murray St.
Doniger & Co., 164 5th Ave.
Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Palo Co., 90-94 Maiden Lane
*Standard Scientific Co., 147 Waverly Pl.
Ohio, Cambridge
Guernsey Earthware Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Ohio, Columbus
*Laboratory Supply Co.
Pa., Pittsburgh
Scientific Materials Co.

Porous Bottoms Pneumatic Flotation Machines

Utah, Salt Lake City
Filter Fabrics Co., The, Felt Bldg.

Por-Seal

Mich., Detroit
Trus-Con Laboratories, Caniff Road and G. T. R. R.

Pots, Acid Proof

Mass., Boston
Badger & Sons Co., R. E., 75 Pitts St.
Henderson, Geo., 9 Preston St.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. J., Newark
Acid Proof Iron Products Co., 41 Hermon St.
N. Y., Buffalo
Sowers Mfg. Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
N. Y., Woodhaven
Chemical Equipment Co.
Ohio, Akron
United States Stoneware Co.
Pa., Philadelphia
Kutztown Foundry & Machine Co. Morris Bldg.
Pa., Pittsburgh
Marshall Foundry Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Pots, Acid Proof Stoneware

N. Y., Rochester
Pfaudler Co., The
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Pots, Acid Resistant, Cast Iron, Glass Enameled

Ohio, Elyria
Elyria Enameled Products Co.

Pots, Annealing

Conn., Branford
Malleable Iron Fittings Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.

Pots, Assay Clay

N. J., Jersey City
Dixon Crucible Co., Joseph

Pots, Assay Sand

N. J., Jersey City
Dixon Crucible Co., Joseph

Pots, Caustic

Ga., Atlanta
Pratt Engineering & Machine Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Buffalo Engineering Co., Erie County Bank Bldg.
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Sowers Mfg. Co.
N. Y., New York City
Stevens Bros., 928 Singer Bldg.
Ohio, Akron
U. S. Stoneware Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., North Philadelphia
Stokes Machine Co., F. J.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Pots, Caustic Soda *(see also Pots, Acid Proof, Pots, Chemical)*

England, Widnes
Widnes Foundry Co., Ltd., The
N. J., Newark
Acid Proof Iron Products Co., Inc., 41 Hermon St.
N. Y., Buffalo
Sowers Mfg. Co.
Devine Co., J. P.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Pa., Philadelphia
Wood & Co., R. D., 400 Chestnut St.

Pots, Chemical, Various Purposes

Del., Wilmington
Walker & Elliott, Inc.
Ill., Batavia
Sperry & Co., D. R.
Ill., Monmouth
Western Stoneware Co.
Md., Baltimore
Caroline Foundry Co., 723 S. Caroline St.
Mich., Bay City
MacKinnon Boiler & Machine Co.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 43 Winchester Ave.
Devine Co., J. P.
Sowers Mfg. Co.
N. Y., New York City
Cornell Iron Works, 26th and 11th Ave.
General Ceramics Co., 50 Church St.
N. Y., Rochester
Pfaudler Co., The
N. Y., Woodhaven
Chemical Equipment Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Philadelphia
Kutztown Foundry & Machine Co., Morris Bldg.
Pa., Pittsburgh
Marshall Foundry Co., 28th and Railroad Ave.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Wis., Manitowoc
Manitowoc Engineering Works

Pots, Cyanide, Welded Steel

N. Y., New York City
Kellogg Co., The M. W., 90 West St.

Pots, Decanting

N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Pots, Galvanizing

N. Y., New York City
General Ceramics Co., 50 Church St.
Wis., Milwaukee
Milwaukee Boiler Co., 220 Oregon St.

Pots, Niter

N. J., Burlington
United States Cast Iron, Pipe & Foundry Co.

Pots, Nitrating

N. Y., Buffalo
Sowers Mfg. Co., 1300 Niagara St.
Ohio, East Akron
Knight, Maurice A.

Pots, Stoneware

Ill., Monmouth
Western Stoneware Co.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Pots, Tinning

Ill., Batavia
Sperry & Co., D. R.
Pa., Pittsburgh
Marshall Foundry Co., 29th and Railroad Sts.

Pottery Machinery

Ohio, Bucyrus
American Clay Machinery Co.
Ohio, East Liverpool
Patterson Foundry & Machine Co.

Powder Flasks, Fibre

N. Y., New York City
Cordley & Hayes, 7 Leonard St.

Powder Mill Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Power Plant Equipment

N. Y., Schenectady
General Electric Co.

Power Transmission Equipment

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Power Transmitting Machinery

(*see also Specific Headings*)

Ill., Chicago
Caldwell & Sons Co., H. W., 17th and Western Aves.
N. Y., Ithaca
Morse Chain Co.
Pa., Philadelphia
Sellers & Co., Inc., Wm., 1600 Hamilton St.

Precipitation Apparatus

Ill., Chicago
Thordarson Electric Mfg. Co., 501 S. Jefferson St.

Precipitation Process, Electric Equipment for

N. Y., Schenectady
General Electric Co.

Precipitation Process, Zinc Dust

Cal., San Francisco
Merrill Metallurgical Co., 121 2d St.

Precipitators

Pa., Mechanicsburg
Scientific Instrument & Electrical Machine Co.

Precision Instruments

Conn., Waterbury
Bristol Co.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Daigger & Co., A., 52-56 W. Kinzie St.
Gaertner & Co., Wm., 5345 Lake Park Ave.
Schaar & Co., 1025 S. State St.
Mass., Foxboro
Foxboro Co., Inc.
Mass., Southbridge
American Optical Co.
Mo., St. Louis
Heil Chemical Co., Henry, 210-214 S. 4th St.
N. J., Trenton
Pyrolectric Co., 148 E. State St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Lenz Apparatus Co., Inc., 18 E. 16th St.
Palo Co., 50 E. 41st St.
Western Electric Co., 463 West St.
N. Y., Rochester
Hausch & Lomb Optical Co.
Pa., Philadelphia
Biddle James G.
Brown Instrument Co.
Leeds & Northrup Co., 4921 Stenton Ave.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
*Thomas Co., Arthur H., W. Washington Sq.

Precision Instruments—*cont.*

Pa., Pittsburgh
*Scientific Materials Co., 711-719 Forbes St.

Preheaters

N. J., Burlington
United States Cast Iron Pipe & Foundry Co.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
N. Y., Buffalo
Zaremba Co., Morgan Bldg.
N. Y., New York City
Thermal Syndicate, Ltd.
N. Y., Rochester
Pfaudler Co.

Preheating Outfits

Mass., Boston
Waterhouse Welding Co.

Presses, Filter (Acid Proof)

N. Y., New York City
Provost Engineering Corp., 220 Broadway

Presses, Acid (*see also Presses, Hydraulic*)

N. Y., Syracuse
Boomer & Boscher & Press Co.

Presses, Electro-Chemical

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Garbage Reduction

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Hot Plate

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Fertilizer

N. Y., Syracuse
Boomer & Boschert Press Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Filter

Cal., Los Angeles
Llewellyn Iron Works
Cal., San Francisco
Oliver Continuous Filter Co., 505 Market St.
Ill., Chicago
Perrin & Co., William R., Old Colony Bldg.
Redfield, Robert S., 327 S. La Salle St.
Swenson Evaporator Co., Monadnock Bldg.
Ill., Batavia
Sperry & Co., D. R.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. J., Harrison
Shriver & Co., T.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Beach-Russ Co., 220 Broadway
*Bernard & Co., F. J., 70 Murray St.
*Eimer & Amend, 205-211 3d Ave.
Independent Filter Press Co., Inc., 47 W. 34th St.
Industrial Filtration Corp., 115 Broadway
*Jacoby, Henry E., 95 Liberty St.
Lungwitz, Emil E., 30 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Palo Co., 50 E. 41st St.
Provost Engineering Corp., 218 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
Pa., Carbondale
Carbondale Machine Co.
Utah, Salt Lake City
United Filters Corp., Felt Bldg.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Presses, Filter Hydraulic

Ill., Chicago
Perrin & Co., William R., Old Colony Bldg.
Redfield, Robert S., 327 S. La Salle St.
Mass., Holyoke
Holyoke Machine Co.
N. J., Newark
Shriver & Co., T.

Presses, Filter Hydraulic—*cont.*

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Worthington Pump & Machinery Corp.
N. Y., Olean
Van Atta & Co., Inc., E. B.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
Pa., Philadelphia
Philadelphia Drying Machinery Co., 6721 Germantown Ave.
Wood & Co., D. R.

Presses, Hydraulic, Baling

N. J., Aldena
Watson-Stillman Co., The

Presses, Hydraulic, Briquetting

N. J., Aldena
Watson-Stillman Co., The

Presses, Hydraulic, Extruding

N. J., Aldena
Watson-Stillman Co., The

Presses, Hydraulic, Forging

N. J., Aldena
Watson-Stillman Co., The

Presses, Hydraulic, Forming

N. J., Aldena
Watson-Stillman Co., The

Presses, Hydraulic, High Pressure

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Hydraulic, Laboratory Testing

N. J., Aldena
Watson-Stillman Co., The

Presses, Hydraulic, Pebydiating

N. J., Aldena
Watson-Stillman Co., The

Presses, Laboratory

Ill., Chicago
Perrin & Co., William R., Old Colony Bldg.
N. Y., Syracuse
Boomer & Boschert Press Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses [Oil], Automatic

N. Y., Syracuse
Boomer & Boschert Press Co.

Presses [Oil], Seed

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Power-Screw

Pa., Philadelphia
Philadelphia Drying Machinery Co., 6721 Germantown Ave.

Presses, Rubber

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Salt Block

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Screw

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Presses, Special (*see also Presses, Filter*)

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Perrin & Co., Wm. B., 37 W. Van Buren St.
Mich., Detroit
Colton Co., Arthur, 782 Jefferson Ave.
N. J., Harrison
Shriver & Co., T.
N. Y., New York City
Lungwitz, Emil E., 30 Church St.
N. Y., Syracuse
Boomer & Boschert Press Co., 382 W. Water St.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Presses, Steam Jacketed

Ill., Batavia
Sperry & Co., D. R.

Presses, Stearic Acid

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Preumercators

Pa., Philadelphia
Quimby Engineering Co., 450 N. 10th St.

Producers, Gas (*see Gas Producers*)

Producers, Pressure

N. Y., Syracuse
Syracuse Industrial Gas Co., 206 McCarthy Bldg.

Producers, Suction

N. Y., Syracuse
Syracuse Industrial Gas Co., 206 McCarthy Bldg.

Projection Apparatus

N. Y., Rochester
Bausch & Lomb Optical Co.
N. Y., Schenectady
General Electric Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Williams-Brown & Earle, 918 Chestnut St.

Protectors, Face and Head (*see also Helmets, Masks*)

N. Y., New York City
Hayward & Co., S. F., 250 W. 54th St.

Pulley Covering

Ohio, Cincinnati
Bradford Belting Co., 201 Walnut St.

Pulleys

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Caldwell & Sons Co., H. W., 17th and Western Aves.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Philadelphia
Sellers & Co., Inc., Wm., 1600 Hamilton St.

Pulleys, Magnetic

N. Y., New York City
Buchanan Co., Inc., C. G., 90 West St.

Pulleys, Steel Split

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Pa., Philadelphia
American Pulley Co., 4200 Wissahickon Ave.
Wis., Milwaukee
Chain Belt Co.

Pulp Machinery (*see also Paper Machinery*)

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Pulp Mill Machinery (*see also Paper Machinery*)

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Pulsometers

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.

Pulverizers (*Classified lists follow*)

Cal., Los Angeles
Lane Mill & Machinery Co., 106 W. 3d St.
Cal., San Francisco
Braun-Knecht-Heimann, 576 Mission St.
Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Johnson Engineering Works, 1734 First National Bank Bldg.
Raymond Bros., Impact Pulverizer Co., 1319 N. Branch St.
Stroud & Co., E. H., 928-934 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Md., Baltimore
Sackett, A. J.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mo., St. Louis
Gruendler Patent Crusher & Pulverizer Co., 928 N. 1st St.
N. Y., Brooklyn
Moussette Co., Inc., O. J., 22-26 Clay St.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Aero Pulverizer Co., 120 Broadway
Buchanan Co., Inc., C. G., 90 West St.
Hardinge Conical Mill Co., 120 Broadway
K.-B. Pulverizer Co., Inc., 86 Worth St.
Machinery Utilities Co., Inc., 501 5th Ave.
Mashek Engineering Co., 90 West St.
Mine & Smelter Supply Co., 42 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Philadelphia
Pennsylvania Crusher Co., Stephen Girard Bldg.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pulverizers, Air-Separation

Ill., Chicago
Raymond Bros. Impact Pulverizer Co., 1327 N. Branch St.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.

Pulverizers, Aluminum Mill

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.

Pulverizers, Assayers (*see Pulverizers, Laboratory*)

Pulverizers, Cement

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Mass., Boston
Bradley Pulverizer Co.

Pulverizers, Coal

Ill., Chicago
Raymond Bros. Impact Co.
Stroud & Co., E. H., 928 Fullerton Ave.
Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.
Mass., Boston
Bradley Pulverizer Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Aero Pulverizer Co., 120 Broadway
Buchanan Co., Inc., C. G., 90 West St.
Provost Engineering Corp., 220 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.

Pulverizers, Dry Color

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.

Pulverizers, Hammer-Bar

Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Pulverizers, Hinged Hammer

Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Ohio, Cleveland
Bartlett & Snow Co., C. O.

Pulverizers, Laboratory

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Cal., Los Angeles
Braun Corp., The, 363 New High St.
Cal., San Francisco
Braun-Knecht-Heimann, 106 W. 3d St.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Abbe, Paul O., New St. and Exchange Pl.
Eimer & Amend, 205-211 3d Ave.
Mine & Smelter Supply Co., 42 Broadway
Palo Co., 90-94 Maiden Lane
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
*Scientific Materials Co.

Pulverizers, Limestone

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Bradley Pulverizer Co.
Sturtevant Mill Co., Harrison Sq.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.
Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.

Pulverizers, Ore (*see Crushers, Grinders*)

Pulverizers, Phosphate Rock

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.

Pulverizers, Refractory Materials

Mass., Boston
Bradley Pulverizer Co.
Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Mass., Boston
Bradley Pulverizer Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.

Pulverizers, Ring Roll

Mass., Boston
Sturtevant Mill Co.

Pulverizers, Sample

Mass., Boston
Sturtevant Mill Co.

Pulverizers, Stone (*see Pulverizers, Ore*)

Pulverized Coal Equipment (*see also Pulverizers, Coal*)

Md., Baltimore
Meade & Co., Richard K., 608 Law Bldg.

Pulverizing Machinery (*see Pulverizers, Specific Headings*)

Pumping Apparatus, Special

N. Y., New York City
Provost Engineering Corp., 220 Broadway

Pumping Machinery, Centrifugal

N. J., Baldwinsville
Morris Machine Works

Pumping Systems, Air Lift

N. Y., New York City
Ingersoll-Rand Co., 11 Broadway

Pumps, Acid

Mich., Battle Creek
Advance Pump & Compressor Co.
American Steam Pump Co.
N. J., Perth Amboy
Chemical Pump & Valve Co.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Buffalo Steam Pump Co.
Lobee Pump Works, 19-31 Bridge St.
N. Y., New York City
Able Engineering Co., 220 Broadway
Beach-Russ Co., 220 Broadway
Bernard & Co., F. J., 70 Murray St.
Duriron Castings Co., 90 West St.
Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
Ingersoll-Rand Co., 11 Broadway
Provost Engineering Corp., 220 Broadway
MacGovern & Co., Inc., 114 Liberty St.
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
Pa., Philadelphia
Otto Gas Engine Works
*Thomas Co., Arthur H., W. Washington Sq.
Wood & Co., D. R.

Pumps, Air

Ill., Chicago
Fairbanks-Morse & Co.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. J., East Carteret
Wheeler Condenser & Engineering Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Devine Co., J. P.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Beach-Russ Co., 220 Broadway
Ingersoll-Rand Co., 13 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Schenectady
General Electric Co.
N. Y., Seneca Falls
Goulds Mfg. Co.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Air and Circulating, Steam Driven

Conn., Hartford
Terry Steam Turbine Co.
Mich., Battle Creek
Advance Pump & Compressor Co.
American Steam Pump Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.

Pump, Air Lift

Ill., Chicago
Sullivan Machinery Co., 122 S. Michigan Ave.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Mich., Battle Creek
American Steam Pump Co.

Pumps, Alkali

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Pumps, Ammonia

Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.
Wis., Milwaukee
Vilter Mfg. Co.

Pumps, Automatic (*see Pumps, Air*)

Pumps, Ball Valve

N. Y., New York City
Provost Engineering Corp., 220 Broadway

Pumps, Bleach Liquor

Mich., Battle Creek
American Steam Pump Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Bleachery (*see Pumps, Bleach Liquor*)

Pumps, Boiler Feed

Ill., Chicago
Fairbanks-Morse & Co.
Conn., Hartford
Terry Steam Turbine Co.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., New York City
Ingersoll-Rand Co., 115 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Brewery

Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.

Pumps, Brine

Mich., Battle Creek
American Steam Pump Co.
N. Y., Seneca Falls
Goulds Mfg. Co.

Pumps, Brine, Calcium

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Vilter Mfg. Co.

Pumps, Centrifugal

Conn., Hartford
Terry Steam Turbine Co.
Ill., Aurora
American Well Works
Ill., Chicago
Fairbanks-Morse Co.
Lammert & Mann Co., Wood and Walnut Aves.
Ill., Quincy
Gardener Governor Co.
Mich., Battle Creek
Advance Pump & Compressor Co.
American Steam Pump Co.
Union Steam Pump Co.
N. J., Baldwinsville
Morris Machine Works
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Perth Amboy
Chemical Pump & Valve Co., Inc.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Buffalo
Buffalo Steam Pump Co.
Taber Pump Co.
N. Y., New York City
Beach-Russ Co., 220 Broadway
Cameron Steam Pump Works, A. S.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Ingersoll-Rand Co.
Machinery Utilities Co., Inc., 501 5th Ave.
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Pa., Philadelphia
Wheeler Mfg. Co., C. H.
Wood Co., D. R., 400 Chestnut St.

Pumps, Centrifugal—*cont.*

Wis., Grand Rapids
American Carbonic Machinery Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Chemical (*see Pumps, Acid*)

Pumps, Chemical (Rotary)

Mich., Petoskey
Blackmer Rotary Pump Co.
N. Y., New York City
General Ceramics Co., 50 Church St.

Pumps, Cylinder Oil, Hand

N. Y., Buffalo
Sherwood Mfg. Co., 1702-12 Elmwood Ave.

Pumps, Chemical Fire

N. Y., Seneca Falls
Goulds Mfg. Co.

Pumps, Creamery

Mich., Petoskey
Blackmer Rotary Pump Co.
Mo., St. Louis
Barry-Wehmiller Machinery Co.
N. Y., Seneca Falls
Goulds Mfg. Co.
N. Y., New York City
Davidson Co., M. T., 155 Nassau St.

Pumps, Creosote

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Pumps, Cyanide

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Pumps, Deep Well

Mich., Battle Creek
American Steam Pump Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.

Pumps, Diaphragm

N. Y., Seneca Falls
Goulds Mfg. Co.

Pumps, Dredging

Conn., Hartford
Terry Steam Turbine Co.

Pumps, Duplex

Mich., Battle Creek
Advance Pump & Compressor Co.
American Steam Pump Co.
Union Steam Pump Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Electric Driven

Ill., Chicago
Fairbanks-Morse & Co.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., New York City
Cameron Steam Pump Works, A. S.
N. Y., Schenectady
General Electric Co.
N. Y., Seneca Falls
Goulds Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Feed Oil, Force

N. Y., Buffalo
Sherwood Mfg. Co., 1702-12 Elmwood Ave.

Pumps, Filter Press

Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. J., Harrison
Shriver & Co., T.
N. J., Perth Amboy
Chemical Pump & Valve Co.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Beach-Russ Co., 220 Broadway
Provost Engineering Corp., 220 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Pumps, Foam System and Fire, Combined

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Pumps, Gas

Ind., Connersville
Connersville Blower Co.
Mich., Detroit
American Blower Co.
Mich., Kalamazoo
Clarage Fan Co.
N. Y., New York City
Beach-Russ Co., 220 Broadway
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Piqua
Piqua Blower Co., 810 S. Downing St.

Pumps, Gasoline

Ind., Ft. Wayne
Bowser & Co., S. F.
Iowa, Dubuque
McDonald Mfg. Co., A. Y.
N. Y., Seneca Falls
Goulds Mfg. Co.

Pumps, Gasoline Storage

N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Pumps, Hand

N. Y., Seneca Falls
Goulds Mfg. Co.

Pumps, Hand, Boiler Feed

Ill., Rockford
Eclipse Fuel Engineering Co.

Pumps, Hydraulic Pressure

Ill., Chicago
Fairbanks-Morse & Co.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. J., Aldena
Watson-Stillman Co., The
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.
N. Y., Syracuse
Boomer & Boschert Press Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
Pa., Pittsburgh
Epping-Carpenter Pump Co., 43d St. and Alleghany Valley R. R.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Irrigating

Ill., Chicago
Fairbanks-Morse & Co.
Conn., Hartford
Terry Steam Turbine Co.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Provost Engineering Corp., 220 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Kerosene

Iowa, Dubuque
McDonald Mfg. Co., A. Y.

Pumps, Laboratory

N. Y., Brooklyn
*Crowell Mfg. Co., 298 Taffe Pl.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Sorensen Co., Inc., C. M.
N. Y., Schenectady
General Electric Co.
N. Y., Seneca Falls
Goulds Mfg. Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Pumps, Laboratory, Air

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.

Pumps, Laboratory, Vacuum

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Pumps, Magna

Ind., Connersville
Connersville Blower Co.

Pumps, Mine

Conn., Hartford
Terry Steam Turbine Co.
Ill., Chicago
Fairbanks-Morse & Co.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Oil

Ind., Connersville
Connersville Blower Co.
Roots Co., P. H. & F. M.

Pumps, Oil—*cont.*

Ind., Ft. Wayne
Bowser & Co., S. F.
Iowa, Dubuque
McDonald Mfg. Co., A. Y.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., Brooklyn
Johnson Co., John, 37th and 2d Ave.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.
Ohio, Dayton
Platt Iron Works
Ohio, Salem
Deming Co.
Wis., Milwaukee
Richardson-Phenix Co., 126 Reservoir Ave.

Pumps, Oil, Circulation

N. Y., New York City
Beach-Russ Co., 220 Broadway

Pumps, Oil and Gasoline, Self Measuring

Ind., Ft. Wayne
Bowser & Co., Inc., F. W.

Pumps, Plunger

Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.

Pumps, Power (*see also Specific Headings*)

Ill., Chicago
Fairbanks-Morse & Co.
Mich., Battle Creek
Advance Pump & Compressor Co.
American Steam Pump Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.
Pa., Pittsburgh
Epping-Carpenter Pump Co., 43 dSt. and Alleghany Valley R. R.

Pumps, Pressure

Ind., Connersville
Connersville Blower Works
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
Mich., Detroit
Colton Co., Arthur
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.

Pumps, Propeller

Pa., Philadelphia
Quimby Engineering Co., 450 N. 10th St.

Pumps, Reciprocating (*see also Specific Headings*)

Pumps, Rotary

N. Y., Brooklyn
Crowell Mfg. Co., 296 Taffe Pl.
N. Y., New York City
Beach-Russ Co., 220 Broadway
Ingersoll-Rand Co., 220 Broadway
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.
Pa., Philadelphia
Wheeler Mfg. Co., C. H.

Pumps, Rotary, Oil Seal, Vacuum

Pa., York
York Electric & Machine Co., 30-34 N. Penn St.

Pumps, Sewage

Mich., Battle Creek
American Steam Pump Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.

Pumps, Slush

Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.

Pumps, Slush—*cont.*

N. Y., New York City
Able Engineering Co., 220 Broadway
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Steam, Duplex

Mich., Battle Creek
Advance Pump & Compressor Co.

Pumps, Steam Turbine Driven

N. Y., Seneca Falls
Goulds Mfg. Co.

Pumps, Stearic Acid

N. Y., Syracuse
Boomer & Boschert Press Co.

Pumps, Stoneware

N. Y., New York City
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Pumps, Stuff

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.

Pumps, Sugar

Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., Seneca Falls
Goulds Mfg. Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Pumps, Sulphur Fume

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Pumps, Tank

Conn., Hartford
Terry Steam Turbine Co.
Mich., Battle Creek
American Steam Pump Co.
N. Y., Seneca Falls
Goulds Mfg. Co.

Pumps, Tannery

Mich., Battle Creek
American Steam Pump Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Pumps, Tar

Ind., Ft. Wayne
Bowser & Co., S. F.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.
N. Y., Seneca Falls
Goulds Mfg. Co.

Pumps, Triplex

Ill., Chicago
Fairbanks-Morse & Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.

Pumps, Turbine

Conn., Hartford
Terry Steam Turbine Co.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Seneca Falls
Goulds Mfg. Co.
Pa., Philadelphia
Wood & Co., D. R.

Pumps, Vacuum

Cal., Oakland
United Iron Works
Cal., San Francisco
Oliver Continuous Filter Co.
Conn., Hartford
Terry Steam Turbine Co.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Economy Pumping Machinery Co., 116-118 N. Carpenter St.
Fairbanks-Morse & Co., 902 S. Wabash Ave.
Lammert & Mann Co., Wood and Walnut Sts.
Mojonnier Bros. Co., 833 W. Jackson Blvd.
Ind., Connersville
Connersville Blower Co.
Mich., Battle Creek
American Steam Pump Co.
Union Steam Pump Co.

Pumps, Vacuum—*cont.*

N. J., Carteret
Wheeler Condenser & Engineering Co.
N. Y., Brooklyn
Crowell Mfg. Co., 298 Taaffe Pl.
Guild & Garrison, 463 Kent Ave.
Hubbard's Son, Norman, 265 Water St.
N. Y., Buffalo
Buffalo Foundry & Machine Co., E., Ferry St. and Fillmore Ave.
Devine Co., J. P.
N. Y., Little Falls
Burrell & Co., D. H.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Beach-Russ Co., 220 Broadway
Blake & Knowles Steam Pump Works, 115 Broadway
Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
Ingersoll-Rand Co., 11 Broadway
Jacoby, Henry E., 95 Liberty St.
Machinery Utilities Co., Inc., 501 5th Ave.
New York Air Brake Co., 165 Broadway
Provost Engineering Corp., 220 Broadway
Wing Mfg. Co., L. J., 352 W. 13th St.
Worthington Pump & Machinery Corp., 115 Broadway
N. Y., Seneca Falls
Goulds Mfg. Co.
Ohio, Sandusky
Sandusky Foundry & Machine Co.
Pa., Chester
Wetherill & Co., Robt.
Pa., Philadelphia
Wheeler Mfg. Co., C. H.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.
Wheeler Mfg. Co., C. H.

Pumps, Vacuum Heating

N. Y., New York City
Beach-Russ Co., 220 Broadway

Pumps, Waterworks

Conn., Hartford
Terry Steam Turbine Co.
Md., Baltimore
Baltimore Cooperage Co., The

Pumps, Well, Artesian

Md., Baltimore
Baltimore Cooperage Co., The

Punches

Conn., New Britain
Stanley Rule & Level Co.
Mass., Athol
Starrett Co., L. S.
Mich., Detroit
Colton Co., Arthur
R. I., Providence
Brown & Sharpe Mfg. Co.

Purifiers, Air

Ill., Chicago
Ilg Electric Ventilating Co., 131 Whiting St.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Sturtevant Co., B. F.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Detroit
American Blower Co.
Mich., Kalamazoo
Clarage Fan Co.
N. Y., Buffalo
Buffalo Forge Co.
N. Y., New York City
Carrier Engineering Corp., 39 Courtlandt St.
Combustion Engineering Corp., 11 Broadway
Ohio, Cleveland
Gas Machinery Co.
Pa., Philadelphia
Wood & Co., D. R.
Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Purifiers, Fumes

Ill., Chicago
Ilg Electric Ventilating Co., 131 Whiting St.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Sturtevant Co., B. F.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Detroit
American Blower Co.
Mich., Kalamazoo
Clarage Fan Co.
N. Y., Buffalo
Buffalo Forge Co.
N. Y., New York City
Carrier Engineering Corp.
Ohio, Cleveland
Gas Machinery Co.

Putty Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Pyrex Glass

N. Y., Corning
Corning Glass Works
N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Pyrometer Shields, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph

Pyrometers, Potentiometer System

N. J., Trenton
Pyrolectric Instrument Co., 148 E. State St.

Pyrometers

Conn., Waterbury
Bristol Co.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Crosby Steam Gauge & Valve Mfg. Co.
Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Hoskins Mfg. Co., 453 Lawton Ave.
Precision Instrument Co.
N. Y., Brooklyn
Tagliabue & Co., J. C., 18 33d St.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Connelly Iron Sponge & Governor Co., 227 Fulton St.
Eimer & Amend, 3d Ave., 18th to 19th Sts.
Engelhard, Chas., 30 Church St.
Holz, Herman, Metropolitan Tower
Shore Instrument & Mfg. Co., Inc., 557 W. 22d St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Uehling Instrument Co., Empire Bldg.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Philadelphia
Brown Instrument Co.
Leeds & Northrup Co., 4921 Stenton Ave.
Precision Thermometer & Instrument Co.
Queen-Gray Co., 616 Chestnut St.
Thwing Instrument Co.
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Gibb Instrument Co.
Scientific Materials Co., 719 Forbes St.

Pyrometers, Recording (*see Pyrometers, Indicating*)

Pyrometers, Resistance

Pa., Philadelphia
Thwing Instrument Co., 3339 Lancaster Ave.

Pyrometers, Tin

N. J., Trenton
Pyrolectric Instrument Co., 148 E. State St.

Pyrometers, Thermo-Electric

Pa., Philadelphia
Thwing Instrument Co., 3339 Lancaster Ave.

Pyroscopes

N. Y., New York City
Shore Instrument & Mfg. Co., Inc., 557 W. 22d St.

Quartz Glass

Ill., Chicago
Schaar & Co., 1025 S. State St.
N. Y., New York City
Engelhard, Charles, 30 Church St.

Quartz Glass, Pure Transparent

N. Y., New York City
Engelhard, Charles, 30 Church St.

Quartz Sand

Ill., Chicago
United States Silica Co., 419 People's Gas Bldg.

Quartz Ware (*see Silica Ware*)

Racks, Drying

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Racks, Foundry Core

Ill., Aurora
Lyon Metallic Mfg. Co.

Racks, Metal

Ill., Aurora
Lyon Metallic Mfg. Co.
Mass., Framingham
Manufacturing Equipment & Engraving Co.

Racks, Test Tube

N. Y., New York City
Estes & Sons, E. B., 362 5th Ave.

Racks, Tool

Ill., Aurora
Lyon Metallic Mfg. Co.

Radioscopes

N. Y., New York City
Palo Co., 90 Maiden Lane

Readers

N. Y., New York City
American Thermo-Ware Co., 16 Warren St.

Reamers

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Ohio, Cleveland
Cleveland Twist Drill Co.

Receivers, Acid

Ill., Monmouth
Western Stoneware Co.
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Koven & Bro., L. O., 50 Cliff St.
Thermal Syndicate, Ltd., 50 E. 41st St.
N. Y., Rochester
Pfaudler Co., The
Ohio, Akron
United States Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Ohio, Elyria
Elyria Enameled Products Co.

Receivers, Acid Proof, Stoneware

Ill., Monmouth
Western Stoneware Co.
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Receivers, Air

Ill., Chicago
Sullivan Machinery Co., People's Gas Bldg.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Hamilton
Hamilton Copper & Brass Works

Receivers, Chlorine, Stoneware

N. Y., New York City
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.

Reclaimers

Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Reclaimers, Centrifugal Oil

N. Y., New York City
De Laval Separator Co., 165 Broadway

Recorders, Combustion

Mich., Detroit
Precision Instrument Co.
N. Y., New York City
Sarco Co., Inc., Woolworth Bldg.
Uehling Instrument Co., 71 Broadway

Recorders, CO_2

Ill., Chicago
Vulcan Fuel Economy Co., 230 S. La Salle St.
Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Precision Instrument Co.
N. Y., New York City
Sarco Co., Inc., Woolworth Bldg.
Uehling Instrument Co., 71 Broadway

Recorders, Differential

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.

Recorders, Draft

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Uehling Instrument Co., 71 Broadway
Pa., Pittsburgh
Bacharach Industrial Instrument Co., 422 1st Ave.

Recorders, Humidity

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.

Recorders, Light Pressure

Mass., Foxboro
Foxboro Co., Inc.
N. Y., Brooklyn
Tagliabue Mfg. Co., J. C., 18 33d St.
N. Y., New York City
Uehling Instrument Co., 71 Broadway
Pa., Pittsburgh
Bachrach Industrial Instrument Co., 422 1st Ave.

Recorders, Temperature

Conn., Waterbury
Bristol Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Bailey Meter Co., 141 Milk St.
Crosby Steam Gauge & Valve Co., 40 Central St.
Mass., Foxboro
Foxboro Co., Inc.
Mich., Detroit
Precision Instrument Co.
N. Y., Brooklyn
Green, Henry J., 1191 Bedford Ave.
Schaeffer & Budenberg Mfg. Co.
Tagliabue Mfg. Co., C. J., 11-88 33d St.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
DuViver, Ernest H., 30 Church St.
Slocum, Avram & Slocum Laboratories, Inc.
Sarco, Inc., Woolworth Bldg.
Uehling Instrument Co., 2011 Empire Bldg.
N. Y., Rochester
Taylor Instrument Cos.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Pa., Mechanicsburg
Scientific Instrument & Electric Machine Co.
Pa., Philadelphia
Brown Instrument Co.
Electric Tachometer Corp., Perry Bldg.
Hydro Mfg. Co., 320 Bullitt Bldg.
Thwing Instrument Co., 436 N. 5th St.
Wis., Madison
Gisholt Machine Co.

Recorders, Time (*see Recorders, Temperatures*)

Recorders, Pressure (*see Recorders, Light Pressure*)

Recorders, Tank

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
Wis., Madison
Gisholt Machine Co.

Recorders, Vacuum

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Uehling Instrument Co., 71 Broadway
Pa., Pittsburgh
Scientific Materials Co., 719 Forbes St.

Recorders, Water Level

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.

Recovery Apparatus (*see also Acid Recovery Plants, and Solvent Recovery Apparatus*)

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. Y., Brooklyn
Johnson Co., John, 2d Ave. and 37th St.
N. Y., Buffalo
Zaremba Co., Morgan Bldg.
N. Y., New York City
Foundation Co., The, Woolworth Bldg.
General Ceramics Co., 50 Church St.
Koven & Bro., L. O., 50 Church St.
Sanborn Evaporator Co., 50 Broad St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Westinghouse, Church, Kerr & Co., 37 Wall St.
N. Y., Rochester
Pfaudler Co., The
Pa., Philadelphia
Sharpless Specialty Co.

Rectifiers

Ill., Chicago
Valhalla Co., Valhalla Bldg.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E.
N. Y., New York City
Koven & Bro., L. O., 50 Cliff St.
Roos' Son, August, 421-429 E. 91st St.
Ohio, Cincinnati
Vulcan Copper Works Co., 122 Sycamore Ave.

Reducers

Mass., Boston
Badger & Sons Co., E. B., 63 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.

Reducers—*cont.*

N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Reducers, Iron Pipe

Conn., Branford
Malleable Iron Fittings Co.

Refractometers

Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Reflectors

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S. Sangamon St.

Reflector Fixtures

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S. Sangamon St.

Reflectors, Porcelain Enameled Steel

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S. Sangamon St.

Refractories

Cal., San Francisco
Braun-Knecht-Heimann, 576 Mission St.
Colo., Golden
Herold China & Pottery Co.
Mass., Cambridge
Exlon Co., The, 156 6th St.
Mass., Worcester
Norton Co.
Mich., Detroit
Hoskins Mfg. Co., 453-471 Lawton Ave.
Mo., St. Louis
Laclede Christy Clay Fire Products Co.
N. Y., New York City
Celite Products Co., 11 Broadway
Mine & Smelter Supply Co., Inc., 42 Broadway
N. Y., Niagara Falls
Carborundum Co.
Ohio, Cambridge
Guernsey Earthenware Co.
Pa., Philadelphia
Foote Mineral Co., Inc., 109 N. 19th St.
Harbison-Walker Refractories Co.

Refrigerating Machinery

Conn., Hartford
Automatic Refrigerating Co.
Del., Wilmington
Remington Machine Co.
Ga., Columbus
Columbus Iron Works Co.
Ky., Louisville
National Foundry & Machine Co.
N. J., New Brunswick
Brunswick Refrigerating Co.
N. Y., New York City
De La Vergne Machine Co., 1123 E. 138th St.
Ohio, Cincinnati
Triumph Ice Machine Co.
Ohio, Cleveland
Phoenix Ice Machine Co., 2711 Church Ave.
Ore., Portland
Harris Ice Machine Works, Inc., 174 E. Water St.
Pa., Carbondale
Carbondale Machine Co.
Wash., Spokane
Armstrong Machinery Co., 3201-3210 E. Riverside St.
Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Refrigerating Safety Devices

N. Y., New York City
Schwenker Inc., W. M., 340-344 E. 92d St.

Refrigerating Supplies

N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.

Refrigerating Systems, Ammonia

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Refrigerating Systems, Brine

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Regulators, Boiler Feed Water

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.

Regulators, Condensate

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.

Regulators, Damper

Mass., Boston
d'Este Co., Julian, 26 Canal St.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Sarco Co., Inc., 229 Broadway
N. Y., Rochester
Taylor Instrument Cos.

Regulators, Dry Kiln

Mass., Foxboro
Foxboro Co., Inc.
N. Y., New York City
Sarco Co., Inc., 229 Broadway

Regulators, Fan Engine

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.

Regulators, Heat Automatic

N. Y., New York City
American Gas Furnace Co., 24 John St.

Regulators, Liquid Level

N. Y., Brooklyn
Tabliabue Mfg. Co., 18 33rd St.

Regulators, Motor Speed

Wis., Milwaukee
Cutler-Hammer Mfg. Co., 12th St. and St. Paul Ave.

Regulators, Pressure

Mass., Boston
d'Este Co., Julian, 26 Canal St.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
Pa., Philadelphia
Messer Mfg. Co., 121 N. 7th St.

Regulators, Pressure, Gas

N. Y., Rochester
Wilmot Castle Co., 800 St. Paul St.
Ohio, Cleveland
Lennox Chemical Co., The, 1201 E. 55th St.

Regulators, Thermo, Bimetallic

N. Y., Rochester
Wilmot Castle Co., 800 St. Paul St.

Regulators, Thermo, Electric

N. Y., Rochester
Wilmot Castle Co., 800 St. Paul St.

Reservoirs, Air Brake

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Resistances

N. J., Trenton
Pyrolectric Instrument Co., 148 E. State St.

Resorcin Apparatus and Plants

N. Y., Buffalo
Devine Co., J. P.

Respirating Devices

N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.

Respirating Outfits

N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.

Respirators

Ill., Chicago
Chicago Eye Shield Co., 2300 Warren Ave.
Life Saving Device Co., 564 W. Monroe St.
Ind., South Bend
Cover, H. S., P. O. Box 404
N. Y., Elmira
American-La France Fire Engine Co., Inc.
N. Y., New York City
American Thermo-Ware Co., 16 Warren St.
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Hayward & Co., S. F., 250 W. 54th St.
Multi-Metal Separating Screen Co., 74 E. 131st St.
National Helmet Co., 39 Park Pl.
National Resuscitating Apparatus Co., Inc., 39 E. 19th St.
Ohio, Akron
Goodrich Co., B. F.
Pa., Philadelphia
Wyeth & Bro., Inc., J., 11th and Washington Ave.
Pa., Pittsburgh
Draeger Oxygen Apparatus Co., 422 1st Ave.

Respirators, Aluminum Automatic

Ill., South Bend
Cover, H. S., P. O. Box 404

Respirators, Ammonia

N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.

Respirators, Rubber Automatic

Ind., South Bend
Cover, H. S., P. O. Box 404

Resuscitators

Ill., Chicago
Life Saving Devices Co., 564 W. Monroe St.
N. Y., New York City
National Resuscitating Apparatus Co., Inc., The, 39 E. 19th St.

Retorts, Acid

Ill., Batavia
Sperry & Co., D. R.
N. J., Burlington
United States Cast Iron, Pipe & Foundry Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Sidio Co. of America, Inc., 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Philadelphia
Kutztown Foundry & Machine Co., Morris Bldg.
Stokes Machine Co., F. J.
Pa., Williamsport
Keeler Co., E.

Retorts, Carbonization

N. J., Perth Amboy
Didier-March Co.

Retorts, Cast Iron

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., Monadnock Bldg.
N. J., Burlington
Stuart & Peterson Co.
U. S. Cast Iron Pipe & Foundry Co.
Mass., Boston
Badger & Sons Co., R. E., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
Mich., Detroit
Detroit Heating & Lighting Co.
N. C., Charlotte
Chemical Construction Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., 26 Winchester Ave.
Sowers Mfg. Co., 1300 Niagara St.
Zaremba Co., Niagara Life Ins. Co. Bldg.
N. Y., New York City
Duriron Castings Co., 90 West St.
Roos' Sons, August
Pa., Fullerton
Lehigh Foundry Co.
Pa., Philadelphia
Stokes Machine Co., F. J.
Wood & Co., D. R.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Volley Iron Works

Retorts, Charcoal

Mich., Muskegon
Muskegon Boiler Works

Retorts, Direct Heat, Shelf

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Retorts, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph

Retorts, Nitric

Ill., Batavia
Sperry & Co., D. R.
N. J., Burlington
Stuart & Peterson Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Farrar & Trefts
Sowers Mfg. Co.
Trout Co., H. G., 226 Ohio St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Thermal Syndicate, Ltd., The, 50 E. 41st St.
Ohio, Akron
United States Stoneware Co.
Ohio, East Akron
Knight, Maurice A.
Pa., Fullerton
Lehigh Foundry Co.
Pa., Philadelphia
Wood & Co., D. R.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Retorts, Platinum

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Revolvators

N. J., Jersey City
N. Y. Revolving Portable Elevator Co., 346-352 Garfield Ave.

Rheostats

Ill., Chicago
Badt & Co., F. B., 6506 Lafayette Ave.
Central Scientific Co., 460 E. Ohio St.
National Electric Controller Co., 154 Whiting St.
Mass., Boston
Mason Regulator Co., 127 Federal St.
N. Y., Bronxville
Ward, Leonard Electric Co.

Rheostats—*cont.*

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Ohio, Cleveland
Electric Products Co., 10514 Dupont Ave., N. E.
Pequoz Electric Co.
Ohio, Mansfield
Phoenix Electric Co.
Pa., Philadelphia
Crucible Steel Co. of America, 30th and Smallman Sts.
Wirt Electric Specialty Co., Armat and Lena Sts.
Wis., La Crosse
Benton Electric Co.
Wis., Milwaukee
Industrial Controller Co., 900 Greenbush St.

Rhotanium Ware

N. Y., New York City
Palo Co., 90 Maiden Lane

Rings, Chemical

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
Mo., St. Louis
Laclede-Christy Clay Products Co., 1673 Railway Exchange Bldg.

Rings, Piston

N. Y., New York City
Abbe Engineering Co., 220 Broadway
Beach-Russ Co., 220 Broadway

Rinsers (*see Bottle Machinery*)

Rods

N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.
N. Y., Niagara Falls
Acheson Graphite Co.
Ohio, Akron
Goodrich Co., B. F.

Rods, Brass

Conn., Waterbury
Randolph-Clowes Co., The
Mich., Detroit
Detroit Copper & Brass Rolling Mills, 95 Clark Ave.

Rods, Bronze

Conn., Waterbury
Randolph-Clowes Co., The
Mich., Detroit
Detroit Copper & Brass Rolling Mills, 95 Clark Ave.

Rods, Copper

Mich., Detroit
Detroit Copper & Brass Rolling Mills, 95 Clark Ave.

Rods, Drill, Polished

N. Y., New York City
Swedish Iron & Steel Corp., 12 Platt St.

Rods, Glass

N. Y., Corning
Corning Glass Works

Rods, Laminated

Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22d St.

Rods, Marine Bronze

Conn., Waterbury
Randolph-Clowes Co., The

Rods, Muntz Metal

Conn., Waterbury
Randolph-Clowes Co., The

Rods, Nickel

N. Y., New York City
Haring, Ellsworth, 114-118 Liberty St.

Rods, Pumps

Md., Baltimore
Baltimore Cooperage Co., The

Rolls, Crushing

Cal., Los Angeles
Lane Mill & Machinery Co.
Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mass., Boston
Bradley Pulverizer Co.
Sturtevant Mill Co., Harrison Sq.
Mich., Saginaw
Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.
N. Y., New York City
Abbe Engineering Corp., 220 Broadway
Buchanan Co., Inc., C. G., 90 West St.
K.-B. Pulverizer Co., 86 Worth St.
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Tiffin
Webster Mfg. Co.

Rolls, Crushing—*cont.*

Pa., Philadelphia
Pennsylvania Crusher Co., Girard Bldg.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Rolls, Pulverizing (*see Rolls, Crushing*)

Rolls, Sheeting, for Pastes, Dough

Mich., Saginaw
Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.

Roofing, Asphalt

Mass., East Walpole
Bird & Son
Mo., St. Louis
Certain-teed Products Corp.
N. Y., New York City
Barrett Co., Whitall Bldg.
N. Y., Syracuse
Semet-Solvay Co.
N. Y., Tonawanda
National Roofing Co.
Pa., Philadelphia
Barber Asphalt Paving Co., Land Title Bldg.

Roofing, Prepared (*see also Roofing, Asphalt*)

N. Y., New York City
Johns-Manville Co., H. W., 296 Madison Ave.
Texas Co., 17 Battery Pl.
Ohio, Lockland
Carey Mfg. Co., Philip
Pa., Ambler
Keasby & Mattison Co.
Pa., Valley Forge
Ehret Magnesia Mfg. Co.

Roofing, Rex Flintkote

Mass., Boston
Flintkote Mfg. Co., 88 Pearl St.

Rope Drives

Ill., Chicago
Caldwell & Sons Co., H. W., 17th and Western Aves.
Ohio, Tiffin
Webster Mfg. Co.
Pa., Philadelphia
Sellers & Co., Inc., Wm., 1600 Hamilton St.

Rope, Rawhide

N. Y., New York City
Schieren Co., Charles A., 30-38 Ferry St.

Rope, Manila

N. Y., New York City
Waterbury Co., 63 Park Row

Rope, Sisal

N. Y., New York City
Waterbury Co., 63 Park Row

Rope, Wire

N. Y., New York City
Waterbury Co., 63 Park Row

Rubber Cement Machines

Conn., Derby
Birmingham Iron Foundry
Mass., Boston
American Tool & Machine Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Trenton
Crossley Machine Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway

Rubber Composition

Ohio, Akron
Goodrich Co., B. F.

Rubber Goods

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Watters Laboratories, Cons., 55 5th Ave.

Rubber, Hard

N. J., New Brunswick
India Rubber Co.
N. J., Trenton
Stokes Rubber Co., Jos.
Ohio, Akron
Goodrich Co., B. F., The

Rubber Mill Machinery

Conn., Ansonia
Farrell Foundry & Machine Co.
Conn., Derby
Birmingham Iron Foundry
Mass., Boston
American Tool & Machine Co.
Mich., Saginaw
Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.
N. J., Trenton
Crossley Machine Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Ohio, Akron
Williams Foundry & Machine Co.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Pa., Philadelphia
Southwark Foundry & Machine Co.

Rubber, Sheet

Ohio, Akron
Goodrich Co., B. F.

Rubber Solution Machines

Mass., Boston
American Tool & Machine Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Rubber Testing Apparatus

Pa., Pittsburgh
Scientific Materials Co., 711-719 Forbes St.

Rubber Washing Machines

Mass., Boston
American Tool & Machine Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Saccharimeters

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Ill., Chicago
Wagner, Carl H., 1944 N. Albany Ave.

Safety Guard Materials

Pa., Braddock
Consolidated Expended Metal Co.

Salt Machinery

Ill., Chicago
Stroud & Co., E. H., Fullerton Bldg.
Mich., Saginaw
Willcox Engineering Co.
Pa., Wilkes-Barre
Vulcan Iron Works

Sampling Machinery (*see Mining Machinery*)

Samplers, Creosote Oils

N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.

Sand Blast Accessories

Md., Hagerstown
Pangborn Corp.

Sand Blast Apparatus

Ill., Chicago
Mott Sand Blast Co., 26 S. Clinton St.
Md., Hagerstown
Pangborn Corp.
N. Y., New York City
American Foundry Equipment Co., 52 Vanderbilt Ave.
De La Vergne Machine Co., 1123 E. 138th St.
Ohio, Cincinnati
Macleod Co.

Sand Blast Rooms

Ill., Chicago
Mott Sand Blast Co., 26 S. Clinton St.
Md., Hagerstown
Pangborn Corp.
N. Y., New York City
American Foundry Equipment Co., 52 Vanderbilt Ave.

Scales, Analytical (*see Balances, Analytical*)

Scales, Assay (*see Balances, Assay*)

Scales, Automatic

Ill., Chicago
Fairbanks-Morse & Co., 900 S. Wabash Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
N. J., Newark
Automatic Weighing Machine Co., 134-140 Commerce St.
N. J., Passaic
Richardson Scale Co.
N. Y., New York City
American Kron Scale Co., 430 E. 53d St.
Fairbanks Co., 416 Broome St.
Howe Scale Co., 341 Broadway
Ohio, Toledo
Toledo Scale Co.

Scales, Automatic Liquid

N. Y., New York City
Simmons Co., John, 110 Center St.

Scales, Charging Crane

N. Y., New York City
American Kron Scale Co., 430 E. 53d St.

Scales, Conveyor

Mass., Boston
Sturtevant Mill Co.
N. Y., New York City
Conveying Weigher Co., 90 West St.
Electric Weighing Co., 180 13th St.

Scales, Crane

N. Y., New York City
American Kron Scale Co., 430 E. 53d St.

Scales, Dairy

N. Y., New York City
Torsion Balance Co., 92 Reade St.

Scales, Dormant

Mass., Boston
Sturtevant Mill Co.
N. Y., New York City
American Kron Scale Co., 430 E. 53d St.

Scales, Drug

N. Y., New York City
Torsion Balance Co., 92 Reade St.

Scales, Fluid Pressure

Mass., Boston
Crosby Steam Gage & Valve Co., 40 Central St.
Sturtevant Mill Co.

Scales, Hanging Pan

N. Y., New York City
American Kron Scale Co., 430 E. 53d St.

Scales, Hopper

N. Y., New York City
American Kron Scale Co., 430 E. 53d St.

Scales, Industrial (*see also Scales, Automatic*)

Mass., Boston
Sturtevant Mill Co.
N. Y., Buffalo
Buffalo Scale Co., Inc., 1200 Niagara St.

Scales, Laboratory (*see Balances*)

Scales, Mine

Ill., Chicago
Streeter-Amet Weighing & Recording Co., 4101-5 Ravenswood Ave.
Mass., Boston
Sturtevant Mill Co.

Scales, Monorail

Mass., Boston
Sturtevant Mill Co.

Scales, Platform

Mass., Boston
Sturtevant Mill Co.
N. Y., Buffalo
Buffalo Scale Co., Inc., 1200 Niagara St.
N. Y., New York City
Chatillon & Sons, John, 85 Cliff St.
Fairbanks Co., 416 Broome St.
Howe Scale Co. of N. Y., 341 Broadway
Pa., Pittsburgh
Standard Scale & Supply Co., 1631 Liberty Ave.

Scales, Portable

N. Y., New York City
American Kron Scale Co., 430 E. 53d St.

Scales, Railroad

Ill., Chicago
Streeter-Amet Weighing & Recording Co., 4101-5 Ravenswood Ave.
Mass., Boston
Sturtevant Mill Co.
N. Y., Buffalo
Buffalo Scale Co., Inc., 1200 Niagara St.

Scales, Special

N. Y., New York City
American Kron Scale Co., 430 E. 53d St.

Scales, Tank

N. Y., Buffalo
Buffalo Scale Co., The, 1200 Niagara St.

Scales, Textile

N. Y., New York City
Torsion Balance Co., 92 Reade St.

Scales, Water

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Scientific Instruments, all kinds (*see also Specific Headings*)

Cal., Berkeley
University Apparatus Co.
Cal., Los Angeles
Braun Corp., 363 New High St.
Cal., San Francisco
Braun-Knecht-Heimann, 576 Mission St.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Dietzgen Co., Eugene, 166 W. Monroe St.
Gaertner & Co., Wm., 5345 Lake Park Ave.
Humboldt Mfg. Co., 2014 Nebraska Ave.
Post Co., Frederick, 202 S. Clark St.
Schaar & Co., 1025 S. State St.
Mich., Detroit
Precision Instrument Co., 102 Randolph St.
Scientific Instrument Co., 134 E. Larned St.

Scientific Instruments, all kinds—*cont.*

Mo., St. Louis
Aloe Co., A. S., 510 Olive St.
Heil Chemical Co., Henry, 216 S. 4th St.
Wissler Instrument Co., 615 N. Broadway
N. J., Hoboken
Keuffel & Esser Co.
N. J., Passaic
Uehling Instrument Co.
N. Y., Brooklyn
Brandis & Sons Mfg. Co., 754 Lexington Ave.
N. Y., New York City
Bernard, F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Holz, Herman A., Metropolitan Tower
Lenz Apparatus Corp.
Scientific Equipment Co., 70 5th Ave.
Shore Instrument & Mfg. Co., 557 W. 22d St.
Standard Scientific Co., 147-153 Waverly Pl.
N. Y., Rochester
Bausch & Lomb Optical Co.
Pfaudler Co., The
Taylor Instrument Cos.
N. Y., Troy
Hanna Mfg. Co.
Pa., Philadelphia
General Scientific Equipment Co., 2000 Market St.
Queen-Gray Co., Inc., 618 Chestnut St.
Thomas Co., Arthur H., 238 W. Washington Sq.
Biddle, James G., 1211-13 Arch St.
Pa., Pittsburgh
Elliott Co., B. K., 130 6th St.
Scientific Materials Co., 711-19 Forbes St.

Scleroscopes

N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Holz, Herman A., Metropolitan Tower
Shore Instrument & Mfg. Co., Inc., 557 W. 22d St.
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Sq.

Scoops, Horn

Ill., Chicago
American Indicator Paper Co.

Scorifiers

Colo., Denver
Denver Fire Clay Co.
N. J., Jersey City
Dixon Crucible Co., Joseph

Scourers (*see Textile Machinery*)

Screening Machinery

Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.

Screens, Cement

N. J., Newark
Newark Wire Cloth Co., 222-28 Verona Ave.
N. Y., New York City
Multi-Metal Separating Screen Co., 225 W. 19th St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Tyler Co., W. S., Superior Ave. and 36th St.
Ohio, Columbus
Jeffrey Mfg. Co.

Screens, Acid Proof

Ill., Aurora
Stephens-Adamson Mfg. Co.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mich., Detroit
Michigan Wire Cloth Co., 536 Howard St.
N. J., Newark
Newark Wire Cloth Co., 222-228 Verona Ave.
N. Y., New York City
Multi-Metal Separating Screen Co., 225 W. 19th St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Ohio, Columbus
Jeffrey Mfg. Co.

Screens, Alkali Proof (*see Screens, Acid Proof*)

Screens, Coal (*see Screens, Mining*)

Screens, Filter

Ill., Chicago
American Wire Fabrics Co.
Mass., Clinton
Clinton Wire Cloth Co.
Mich., Detroit
Detroit Wire Cloth Co.
N. J., Newark
Newark Wire Cloth Co.
N. J., Trenton
New Jersey Wire Cloth Co.
N. Y., New York City
Multi-Metal Separating Screen Co.
Ohio, Cleveland
Cleveland Wire Cloth & Mfg. Co.
Tyler Co., W. S., Superior Ave. and 36th St.

Screens, Inclined, Vibrating

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.

Screens, Mining

Ill., Chicago
Caldwell & Son Co., W. H.
Link-Belt Co., W. 39th St. and Stewart Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Mass., Clinton
Clinton Wire Cloth Co.
Mo., St. Louis
Ludlow-Saylor Wire Co.
N. J., Newark
Newark Wire Cloth Co.
N. J., Trenton
New Jersey Wire Cloth Co.
N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Cleveland
Bartlett & Snow Co., C. N.
Tyler Co., W. S., Superior Ave. and 36th St.
Ohio, Columbus
Jeffrey Mfg. Co.
Ohio, Tiffin
Webster Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Screens, Newaygo

Mass., Boston
Sturtevant Mill Co., Harrison Sq.

Screens, Oil (*see Screens, Filter*)

Screens, Ore (*see Screens, Mining*)

Screens, Perforated Metal

Pa., Carbondale
Hendrick Mfg. Co., 39-75 Dundaff St.

Screens, Revolving

Ill., Aurora
Stephens-Adamson Mfg. Co.
Ill., Chicago
Caldwell & Sons Co., H. W., 17th and Western Aves.
Link-Belt Co., W. 39th St. and Stewart Ave.
Mich., Detroit
Michigan Wire Cloth Co.
N. Y., New York City
Buchanan Co., Inc., C. G., 90 West St.
Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.
Ohio, Tiffin
Webster Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Chain Belt Co.

Screens, Rolled Wire

Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Screens, Rolling

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
Mass., Boston
Sturtevant Mill Co., Harrison Sq.
Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
Chain Belt Co.

Screens, Rotary (*see Screens, Revolving*)

Screens, Sand (*see Screens, Mining*)

Screens, Shaking (*see Screens, Rolling*)

Screens, Slot

Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Screens, Vibrating

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
N. Y., New York City
Day & Co., J. H.

Screens, Wire Cloth *see* (*Wire Cloth*)

Scrubbers, Gas

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., New York City
Foundation Co., The, Woolworth Bldg.
General Ceramics Co., 50 Church St.
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Cleveland
Gas Machinery Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Sealing Machinery

Md., Baltimore
Crown Cork & Seal Co.
N. J., Newark
Automatic Weighing Machine Co., 134 Commerce St.

Searchlights

N. Y., Rochester
Bausch & Lomb Optical Co.
N. Y., Schenectady
General Electric Co.

Separators, Ammonia

N. Y., New York City
De La Vergne Machine Co., 1123 E. 138th St.
Worthington Pump & Machinery Corp., 115 Broadway

Separators, Centrifugal (*see Centrifugals*)

Separators, Dairy

Ill., Chicago
Albaugh-Dover Co., 2106 Marshall Blvd.
Creamery Package Mfg. Co., 61 W. Kinzie St.
N. Y., Little Falls
Burrell & Co., D. H.
N. Y., New York City
De Laval Separator Co., 167 Broadway
Pa., West Chester
Sharples Specialty Co., The

Separators, Electrostatic

Mass., Boston
Huff Electrostatic Separator Co., 60 India St.

Separators, Inclined, Vibrating

Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Separators, Magnetic

Colo., Denver
Stearns-Rogers Mfg. Co.
N. Y., New York City
Buchanan Co., Inc., C. G., 90 West St.
Pa., Muncy
Sprout, Waldron & Co.
Pa., Philadelphia
Dienelt & Eisenhardt Co., Inc., 1304 N. Howard St.
Wis., Milwaukee
Cutler-Hammer Mfg. Co., 12th St. and St. Paul Ave.
Dings Magnetic Separator Co., 333 South St.

Separators, Moisture (*see Separators, Steam*)

Separators, Oil

Conn., New Haven
National Pipe Bending Co., The, River and Lloyd Sts.
Ill., Chicago
Crane Co., 836 S. Michigan Ave.
Ill., Quincy
Gardner Governor Co.
N. J., Camden
Webster & Co., Warren
N. Y., New York City
De La Vergne Machine Co., 1123 E. 138th St.
Griscom-Russell Co., 90 West St.
Pa., Philadelphia
Harrison Safety Boiler Works, 3130 N. 17th St.

Separators, Ore (*see also Screens, Mining*)

Wis., Milwaukee
Dings Magnetic Separator Co., 333 South St.

Separators, Screen (*see Screens, Various Headings*)

Separators, Soil

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Separators, Steam

Conn., New Haven
National Pipe Bending Co., The, River and Lloyd Sts.
Mass., Boston
d'Este Co., Julian, 26 Canal St.
N. J., East Carteret
Wheeler Condenser & Eng. Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Kellogg Co., The M. W., 90 West St.
Provost Engineering Corp., 220 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Pa., Philadelphia
Harrison Safety Boiler Works

Separators, Vibrating

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Shafting

Del., Wilmington
Walker & Elliott, Inc.

Shafting—*cont,*

Ill., Chicago
Caldwell & Sons Co., H. W., 17th and Western Aves.
Link-Belt Co., W. 39th St. and Stewart Ave.
Ohio, Youngstown
Republic Iron & Steel Co.
Pa., Muncy
Sprout, Waldron & Co.
Pa., Philadelphia
Cambria Steel Co., Widener Bldg.
Sellers & Co., Inc., Wm., 1600 Hamilton St.
Pa., Pittsburgh
Jones & Laughlin
National Tube Co., Frick Bldg.
Pa., Williamsport
Valley Iron Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Shakers, Bottle

Mass., Brighton
International Equipment Co., 352 Western Ave.

Shakers, Sieve Machines

N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.
Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Shells, Brass and Copper, Seamless

Conn., Waterbury
Randolph-Clowes Co., The

Sheets, Brass and Bronze

Conn., Waterbury
Randolph-Clowes, Co., The

Sheet Metal

Conn., Bridgeport
Bridgeport Brass Co.
Wis., Milwaukee
Geuder, Paeschke & Frey Co., St. Paul and 15th Sts.

Sheet Metal Products

Ohio, Canton
Berger Mfg. Co.

Sheet and Metal Work, Special

Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.

Sheets, Black

Pa., Pittsburgh
American Sheet & Tin Plate Co., Frick Bldg.

Sheets, Brass, Copper, Bronze

Mich., Detroit
Detroit Copper & Brass Rolling Mills, 95 Clark Ave.

Sheets, Corrugated

Pa., Pittsburgh
American Sheet & Tin Plate Co., Frick Bldg.

Sheets, Galvanized

Pa., Pittsburgh
American Sheet & Tin Plate Co., Frick Bldg.

Sheets, Galvanized, Copper Steel

Pa., Pittsburgh
American Sheet & Tin Plate Co., Frick Bldg.

Sheets, Hard Rubber

Ohio, Akron
Goodrich Co., B. F.

Sheets, Laminated

Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22d St.

Sheets, Muntz Metal

Conn., Waterbury
Randolph-Clowes Co., The

Sheets, Polished Steel

Pa., Pittsburgh
American Sheet & Tin Plate Co., Frick Bldg.

Sheets, Pure Nickel, for Laboratory Work

N. Y., New York City
Haring, Ellsworth, 114-118 Liberty St.

Shelves, Metal

Ill., Aurora
Lyon Metallic Co.
Ill., Chicago
Durand Steel Locker Co.
Mass., Framingham
Manufacturing Equipment & Engraving Co.
Pa., Philadelphia
Lupton & Sons Co., David

Shelves, Wrought Steel

Conn., New Britain
Hart & Cooley Co.

Shingles, Metal

Ohio, Canton
Berger Mfg. Co.

Shoes, Wooden

N. Y., New York City
Estes & Sons, E. B., 75 Warren St.

Shredders

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.

Sieves, Experimental (*see also Screens*)

N. J., Newark
Newark Wire Cloth Co.
N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.
N. Y., New York City
Day & Co., J. H.

Sifters

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Bldg.
Mich., Saginaw
Werner & Pfleiderer Co., Inc.
Mo., St. Louis
Ludlow-Saylor Wire Co.
N. Y., New York City
Abbe, Paul O., 30 Broad St.
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Tyler Co., W. S., Superior Ave. and 36th St.
Ohio, East Liverpool
Patterson Foundry & Machine Co.
Ohio, Lockland
Gedge-Gray Co.
Pa., Muncy
Sprout, Waldron & Co.

Sifters, Sand

Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Sifting Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Mass., Boston
Holmes & Blanchard Co., 31 State St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.

Silos

Md., Baltimore
Baltimore Cooper Co., The
Ohio, Cincinnati
Hauser-Stander Tank Co.

Silica, 99-8/10%

Pa., Philadelphia
Paxson Co., J. W., 1021 N. Delaware Ave.

Silica, Fused

Ill., Chicago
Schaar & Co., 1025 S. State St.
N. Y., New York City
Sidio Co. of America, Inc., 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Pittsburgh
Harbison-Walker Refractories Co.

Silica Sand

Ill., Chicago
United States Silica Co., 419 Peoples Gas Bldg.

Silica Ware

N. J., Newark
Hanovia Chemical & Mfg. Co.
N. Y., New York City
Palo Co., 90-94 Maiden Lane
Sidio Co. of America, Inc., 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.

Sinks, Acid Proof

N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, Charles, 986 Metropolitan Ave.
Ohio, Akron
Weeks, A. J.
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Sinks, Steel

Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
N. Y., New York City
Duriron Castings Co., 90 West St.

Sinks, Stoneware

N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Sinks, Wood

Ill., Chicago
Eagle Tank Co., 1315 W. 21st Pl.

Smelters

Cal., San Francisco
Selby Smelting & Lead Co.
Ill., Chicago
Chicago Retort & Fire Brick Co., 208 S. La Salle St.
Goldsmith Bros. Smelting & Refining Co.
Ill., Danville
Hegeler Zinc Co.
Ill., La Salle
Matthiessen & Hegeler Zinc Co.
Ill., Peru
Illinois Zinc Co.
Mass., Boston
U. S. Smelting, Refining & Mining Co., 55 Congress St.
Mich., Detroit
Detroit Metal Refining Co., 452-470 Lawton St.
Mo., St. Louis
Edgar Zinc Co., 314 N. Broadway
N. J., Newark
Balbach Smelting & Refining Co., 580 Market St.
N. Y., New York City
American Smelting & Refining Co.
Eagle Smelting & Refining Works, Woolworth Bldg.
Nassau Smelting & Refining Works, 607 W. 29th St.
Ohio, Cleveland
Grasselli Chemical Co.
National Smelting Works, 6800 Grant Ave.
Pa., Pittsburgh
Pennsylvania Smelting Co., Benedum-Trees Bldg.
Pittsburgh Smelting & Refining Co., Elizabeth and B. & O. R. R.
Wash., Tacoma
Tacoma Smelting Co.

Smelting Machinery

Cal., Los Angeles
Llewellyn Iron Works, North Main and Redondo Sts.
Cal., Oakland
Senn Concentrator Co.
Cal., San Francisco
Pacific Foundry Co.
Union Iron Works Co., 260 California Ave.
Colo., Denver
American Zinc, Ore Separating Co., 1218 Foster Bldg.
Colorado Iron Works Co.
Dorr Co., Cooper Bldg.
Morse Bros. Machinery & Supply Co.
Ill., Chicago
Link-Belt Co., W. 39th and Stewart Sts.
Sullivan Machinery Co.
N. Y., New York City
Ingersoll-Rand Co., 11 Broadway
Mine & Smelter Co., 42 Broadway
Worthington Pump & Machinery Corp., 115 Broadway
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.
Ohio, Cleveland
Wellman-Seaver-Morgan Co., 7004 Central Ave.
Ohio, Columbus
Jeffrey Mfg. Co., 954 N. 4th St.
Pa., Allentown
Traylor Engineering & Mfg. Co.
Pa., Wilkes-Barre
Vulcan Iron Works
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Smoke Breechings

N. Y., New York City
Dover Boiler Works, 50 Church St.

Smoke Consuming Apparatus

N. Y., Mechanicsville
Mechanicsville Specialty Supply Mfg. Co.

Smoke Stacks (*see Stacks*)

Sockets

Ohio, Cleveland
Cleveland Twist Drill Co.

Soapstone

N. C., Asheville
Georgia Talc Co.
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
Talc Products Co., 11 Pine St.
Tenn., Chattanooga
American Lava Co.

Soda Driers

N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.

Soda Reclaiming Systems

N. Y., Buffalo
Zaremba Co., Morgan Bldg.

Solders

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway
N. Y., New York City
Du Bois & Co., F. N., 245 9th Ave.

Solders, Gold, Silver, Platinum

Pa., Philadelphia
Hagstoz & Son, T. B., 709 Sansom St.

Solvent Recovery Apparatus

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer Co., Inc.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Dorr Co., The, 17 Battery Pl.
General Ceramics Co., 50 Church St.
Koven & Bro., L. O., 50 Church St.
Roos' Son, August, 429 E. 91st St.
N. Y., Rochester
Pfaudler Co., The
Pa., Coatesville
Coatesville Boiler Works
Pa., Philadelphia
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.
Stokes Machine Co., F. J., 17th and Cambria Sts.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Spatulas

Conn., New Britain
Landers, Frary & Clark
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., 54 Austin St.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Ohio, Cambridge
Guernsey Earthware Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Spatulas, Horn

Ill., Chicago
American Indicator Paper Co.

Spatulas, Wooden

N. Y., New York City
Estes & Sons, E. B., 362 5th Ave.

Special Equipment for Chemical Plants

N. Y., New York City
Jacoby, Henry E., 95 Liberty St.

Special Machinery

N. Y., Buffalo
Devine Co., J. P.
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Burhorn Co., Edwin, 71 Wall St.
Stevens, Aylsworth Co., Inc., 253 Broadway

Specialties, Steam

N. J., Camden
Webster & Co., Warren

Spectroscopes

Ill., Chicago
Gaertner & Co., Wm., 5345 Lake Park Ave.
*Central Scientific Co., 460 E. Ohio St.
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
N. Y., New York City
*Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Speedometers

Conn., Hartford
Veeder Mfg. Co.
Ill., Chicago
Stewart-Warner Speedometer Co.
Mass., Boston
Standard Thermometer Co., 65 Shirley St.

Spigots

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.

Spigots, Acid Proof

N. Y., New York City
Estes & Sons, E. B., 362 5th Ave.

Splints, Wooden

N. Y., New York City
Estes & Sons, E. B., 362 5th Ave.

Sponges

Ill., Chicago
Rhodes & Co., James H., 157 W. Austin Ave.
N. Y., New York City
American Sponge & Chamois Co., Inc., 73 Wooster St.
Eimer & Amend, 205-211 3d Ave.

Sponges, Rubber

N. Y., New York City
Borgfeldt & Co., Geo., 16th and Irving Pl.
Ohio, Akron
Miller Rubber Co.
Ohio, Ashland
Faultless Rubber Co.

Spoons

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Spoons, Horn

Ill., Chicago
American Indicator Paper Co.

Sprayers, Oil Paint

Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Spray Cooling Systems (*see also Cooling Systems*)

Ill., Chicago
Star Brass Works, 3114-3120 Carroll Ave.
Mass., Boston
Spray Engineering Co., 93 Federal St.
N. Y., New York City
Carrier Air Conditioning Co. of America, 490 Broadway

Spraying Systems, Paint

Mass., Boston
Spray Engineering Co., 93 Federal St.

Spray Nozzle Installation

N. Y., New York City
Cooling Tower Co., Inc., The, 17 John St.

Spray, Nozzles

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprays, Atomizing

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprays, Brass, Steel, Iron, Monel Metal

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprays, Chemical and Industrial Purposes

N. Y., Long Island City
Anthony Co., 138 West Ave.

Sprays, Hard Rubber

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprays, Oil

N. Y., Long Island City
Anthony Co., 138 West Ave.

Sprays, Re-cooling, for Condensing Water

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprays, Stoneware, for Sulphuric Acid Chambers

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Sprinkler Systems, Fire, Automatic

N. Y., New York City
Automatic Sprinkler Co. of America, 123 William St.
Pa., Philadelphia
Globe Automatic Sprinkler Co., 2035 Washington Ave.
R. I., Providence
General Fire Extinguisher Co., 275 W. Exchange St.

Sprinklers, Plant

Mass., Andover
Tyer Rubber Co.

Stacks

Ill., Chicago
Chicago Bridge & Iron Works, Old Colony Bldg.
Ky., Louisville
Caldwell Co., W. E.
Md., Baltimore
Bartlett-Hayward Co.
Codd Co., E. J., 710 S. Caroline St.
Mich., Muskegon
Muskegon Boiler Works
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Stacks—*cont.*

N. J., Burlington
United States Cast Iron, Pipe & Foundry Co.
N. Y., Buffalo
Buffalo Engineering Co., Erie County Bank Bldg.
N. Y., New York City
Burhorn Co., Edwin, 71 Wall St.
Dover Boiler Works, 50 Church St.
Van Emden Co., H., 145 W. 45th St.
Ohio, Cincinnati
Houston-Stanwood & Gamble Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Keller Co., E.
Wis., Milwaukee
Milwaukee Boiler Works

Stamp Mills (*see Mining Machinery*)

Standpipes

Cal., Los Angeles
Llewellyn Iron Works
Ill., Chicago
Chicago Bridge & Iron Works, Old Colony Bldg.
Fairbanks-Morse & Co.
Mich., Saginaw
Wickes Boiler Works
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Pa., Coatesville
Coatesville Boiler Works
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Stands, Retort

Ill., Chicago
Stoelting Co., C. H., 3037 Carroll Ave.

Starch Machinery

Mich., Saginaw
Werner & Pfleiderer Co., Inc.
Pa., Philadelphia
Remmers & Sons, B., 1227 Germantown Ave.

Starters, Automatic Motor

Ohio, Cleveland
Electric Controller & Mfg. Co., 2698 E. 79th St.

Starters, Electric Motor

Wis., Milwaukee
Industrial Controller Co., 900 Greenbush St.

Starters, Motor

Wis., Milwaukee
Cutler-Hammer Mfg. Co., 12th St. and St. Paul Ave.

Steam Specialties

N. Y., Buffalo
Sherwood Mfg. Co., 1702-12 Elmwood Ave.

Steel Testing Apparatus

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Sterilization Serum Plants

Pa., West Chester
Sharples Specialty Co., The

Sterilizers

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Chicago Surgical & Electrical Co., 314 W. Superior St.
Mohr & Sons, John, 349-359 W. Illinois St.
N. J., Jersey City
Koven & Brother, L. O., 154 Ogden Ave.
Pa., Scottsdale
Electric Water Sterilizer Co.
N. Y., Brooklyn
Silver & Co., 304 Hewes St.
N. Y., Buffalo
Hygeia Nursing Bottle Co.
N. Y., New York City
Dougherty, J. T., 409 W. 59th St.
Eimer & Amend, 205-211 3d Ave.
*Hospital Supply Co., 53 5th Ave.
Maris & Co., J. M., 40 Barclay St.
N. Y., Rochester
Bausch & Lomb Optical Co.
Wilmot Castle Co.
Ohio, Alliance
Reeves Bros. Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 719 Forbes St.

Sterilizers, Laboratory, Hot Air

N. Y., Rochester
Wilmot Castle Co., 800 St. Paul St.
Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.

Sterilizers, Test Tube

N. Y., Rochester
Wilmot Castle Co., 800 St. Paul St.

Stills, Chemical

Ga., Atlanta
Pratt Engineering & Machine Co.
Ill., Batavia
Sperry & Co., D. R.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B., 75 Pitts Ave.
Little Co., Arthur D., 93 Broad St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Detroit
Detroit Heating & Lighting Co.
N. C., Charlotte
Chemical Construction Co.
N. J., Burlington
United States Cast Iron, Pipe & Foundry Co.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. Y., Brooklyn
Ross & Sons Co., Charles
N. Y., Buffalo
Buffalo Engineering Co.
Buffalo Foundry & Engineering Co.
Devine Co., J. P.
Sowers Mfg. Co.
Zaremba Co.
N. Y., New York City
Abbe, Paul O., New St. and Exchange Pl.
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Jacoby, Henry E., 95 Liberty St.
Kalbperry Corp., 31 Union Sq., W.
Mott Iron Works, J. L., 118 5th Ave.
Roos' Sons, August, 429 E. 91st St.
Stevens Brothers, 149 Broadway
Thermal Syndicate, Ltd., The, 50 E. 41st St.
United Lead Co., 120 Broadway
N. Y., Rochester
Pfaudler Co., The
Ohio, Akron
U. S. Stoneware Co.
Ohio, Cleveland
Steel Improvement & Forge Co., 5000 Winsor Ave.
Ohio, East Akron
Knight, Maurice A.
Ohio, Elyria
Elyria Enameled Products Co.
Ohio, Hamilton
Hamilton Copper & Brass Works
Pa., Coatesville
Coatesville Boiler Works
Pa., Fullerton
Lehigh Foundry Co.
Pa., Pittsburgh
Marshall Foundry Co., 28th and Railroad Sts.
Rosedale Foundry & Machine Co., Columbus and Preble Aves.
Scientific Materials Co., 717 Forbes St.
Pa., Williamsport
Keeler Co., E.
Valley Iron Works
Wis., Milwaukee
Sommers & Sons Co., Galena and 31st Sts.

Stills, Mercury

Mass., Boston
Knott Apparatus Co., L. E., Cambridge "A" Station
England, Stanningley, nr. Leeds
Leeds & Bradford Boiler Co., Ltd., The

Stills, Oil

Ill., Chicago
Unger, John S., 3344 Broadway
Mass., Fall River
Scott & Co., Ernest
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Ohio, Cleveland
Gas Machinery Co., 1900 Euclid Ave.
Ohio, Cincinnati
Hauser-Stander Tank Co.
Ohio, Niles
Standard Boiler & Plate Iron Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., Sharon
Petroleum Iron Works Co.

Stills, Phenol

England, Stanningley, nr. Leeds
Leeds & Bradford Boiler Co., Ltd., The
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P.

Stills, Plain and Rectifying

N. Y., Buffalo
Devine Co., J. P.

Stills, Platinum

N. J., Newark
American Platinum Works
Baker & Co., Inc.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Stills, Steam Jacketed

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.
Mich., Detroit
Colton Co., Arthur
Pa., Conshohocken
Wood Mfg. Co., John

Stills, Tar (*see Stills, Oil*)

Stills, Turpentine

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Ohio, Alliance
Reeves Bros. Co.

Stills, Vacuum

Mass., Boston
Lummus Co., The Walter E.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. J., Burlington
Stuart & Peterson Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P.
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Turl Iron & Car Co., Inc., 50 Broad St.
Ohio, Elyria
Elyria Enameled Products Co.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.
Wis., Milwaukee
Sommers & Sons Co., Galena and 31st Sts.
England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

Stills, Welded

N. Y., New York City
Kellogg Co., The M. W., 90 West St.
Pa., Carbondale
American Welding Co.

Stills, Water

Ill., Chicago
Acme Water Still Co.
Daigger & Co., A., 52-56 W. Kinzie St.
Sargeant Steam Meter Co., 2835 Armitage Ave.
Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
Mich., Detroit
Colton Co., Arthur
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Burkhard, Inc., Thomas
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Van Emden Co., H., 145 W. 45th St.
N. Y., Woodbury
Hodges Water Still Co., Inc., 33 S. Broad St.

Stills, Water, Automatic

Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Stills, Water, Industrial

N. Y., Rochester
Bausch & Lomb Optical Co.

Stills, Water, Laboratory

N. Y., Rochester
Bausch & Lomb Optical Co.

Stills, Wood

Ohio, Cincinnati
Hauser-Stander Tank Co.

Stirrers

N. J., Jersey City
Dixon Crucible Co., Joseph
Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.
N. Y., New York City
General Ceramics Co., 50 Church St.
Gerdes & Co., Inc., 36 Church St.
Koven & Bro., L. O., 50 Church St.
Roos Son, August, 429 E. 91st St.
United Lead Co., 120 Broadway
N. Y., Niagara Falls
Acheson Graphite Co.
N. Y., Rochester
Pfaudler Co., The
Ohio, East Akron
Knight, Maurice A.

Stirrers, Graphite

N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., Niagara Falls
Acheson Graphite Co.

Stirring Apparatus

N. Y., Buffalo
Sowers Mfg. Co., 1300 Niagara St.

Stokers, Bituminous Coal

N. Y., New York City
Combustion Engineering Corp.

Stokers, for All Hand-Fired Fuels

N. Y., New York City
Combustion Engineering Corp., 11 Broadway

Stokers, Powdered Coal

Ill., Chicago
Stroud & Co., E. H., 928 Fullerton Ave.

Stones, Sharpening

Ill., Chicago
Chicago Wheel & Mfg. Co., 1101-1103 W. Monroe St.
Mass., Waltham
Superior Corundum Wheel Co.
N. Y., Niagara Falls
Carborundum Co.

Stoneware, Acid Proof

Cal., San Francisco
Steiger Terra Cotta & Pottery Works, Mills Bldg.
Ga., Atlanta
Hood Brick Co., B. Mifflin
Ill., Monmouth
Western Stoneware Co.
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
Henderson Co., 9 Preston Drive
N. Y., Brooklyn
Graham Chemical Pottery Works, Chas., 986 Met. Ave.
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
Behrend, F., 54 Front St.
Eimer & Amend, 205-211 3d Ave.
General Ceramics Co., 50 Church St.
Lenz Apparatus Co., Inc., 18 E. 16th St.
Machinery Utilities Co., Inc., 501 5th Ave.
Ohio, Akron
Robinson Clay Product Co.
United States Stoneware Co.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.
Pa., Philadelphia
Remmey Sons Co., Richard C, Hedley and Delaware River Bldg.
Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Scientific Materials Co., 711-19 Forbes St.

Stopcocks

N. J., Millville
Wheaton Co., T. C.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
General Ceramics Co., 50 Church St.
Ohio, Akron
Goodrich Co., B. F.
Ohio, East Akron
Knight, Maurice A.
Pa., Carbondale
Griebel Instrument Co.

Stops, Electric Limit

Ohio, Cleveland
Electric Controller & Mfg. Co., 2698 E. 79th St.

Stoppers, Carboy, Stoneware

N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.

Stoppers, Glass (*see Glass, Chemists*)

Stoppers, Laboratory, Pure Gum

Ohio, Akron
Goodrich Co., B. F.

Stoppers, Laboratory, Semi-Pure Gum

Ohio, Akron
Goodrich Co., B. F.

Stoppers, Rubber

Ill., Chicago
*Daigger & Co., A., 52-56 W. Kinzie St.
Mass., Boston
*Knott Apparatus Co., L. E., Cambridge "A" Station
Ohio, Akron
Goodrich Co., B. F.
Pa., Philadelphia
Quaker City Rubber Co., 629 Market St.
*Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co., 410 Race St.

Stopper-Heads, Graphite

Pa., Philadelphia
Seidel, Inc., R. B., 1322 Callowhill St.

Stopples, Laboratory

Ohio, Ashland
Faultless Rubber Co.

Stoves, Alcohol

N. J., Newark
Alpha Alcohol Utensil Co., 367 N. 5th St.

Stoves, Sterilizer

N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Stoves, Testing

N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Strainers, Acid (*see also Screens*)

N. J., East Burlington
U. S. Cast Iron Pipe & Foundry Co.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Harrison
Shriver & Co., T.
N. Y., New York City
General Ceramics Co., 50 Church St.

Strainers, Air

N. Y., New York City
Sarco Co., Inc., 229 Broadway
Ohio, Cincinnati
Macleod Co., 2232-36 Bogen Ave.

Strainers, Gasoline

N. J., Newark
Newark Wire Cloth Co., 228 Verona Ave.
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Strainers, Lead

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Strainers, Oil

Ill., Chicago
Self Cleaning Strainer Co., 6329 Stewart Ave.
N. Y., Long Island City
Anthony Co., 138 West Ave.

Strainers, Steam

Ill., Chicago
Self Cleaning Strainer Co., 6329 Stewart Ave.
Ill., Decatur
Mueller Mfg. Co., H.
N. Y., New York City
Sarco Co., Inc., 229 Broadway

Strainers, Twin

Mass., Boston
Boston Steam Specialty Co., 185 Franklin St.

Strainers, Water

Conn., Waterbury
Waterbury Mfg. Co.
Ill., Chicago
Crane Co., 836 S. Michigan Ave.
N. Y., New York City
Sarco Co., Inc., 229 Broadway
Pa., Pittsburgh
Elliott Co., 6915 Susquehanna St.
Pittsburgh Valve, Foundry & Construction Co.
Rosedale Foundry & Machine Co., Columbus and Preble Aves.

Strainers, Water (Conveying)

Ill., Chicago
Link-Belt Co.
Wis., Milwaukee
Chain Belt Co., 734 Park St.

Stretchers, First Aid

W. Va., Wheeling
Williams' Improved Stretcher Co., 1202 Water St.

Sugar Machinery, Beet

Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Swenson Evaporator Co., 945 Monadnock Bldg.
Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
American Tool & Machine Co., 10 High St.
Mich., Bay City
MacKinnon Boiler & Machinery Co.
N. Y., Buffalo
Sowers Mfg. Co., 1300 Niagara St.
Ohio, Cleveland
Kilby Mfg. Co., 4623 Lakeside Ave.
Pa., Philadelphia
Wood & Co., D. R., 400 Chestnut St.
Pa., Pittsburgh
Marshall Foundry Co., 28th and Railroad Sts.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Sugar Machinery, Cane

Colo., Denver
Stearns-Roger Mfg. Co.
Del., Wilmington
Pusey & Jones
Ga., Atlanta
Pratt Engineering & Machine Co.
Ill., Batavia
Sperry & Co., D. R.
La., New Orleans
Joubert & Goslin Machine & Foundry Co.
Md., Baltimore
Bartlett-Hayward Co.
Mass., South Boston
Hersey Mfg. Co.
Mich., Saginaw
Werner & Pfleiderer Co., Inc.
N. Y., Buffalo
Sowers Mfg. Co.
Squier Mfg. Co., Geo. L.
N. Y., New York City
Treadwell Co., M. H., 140 Cedar St.
Pa., Philadelphia
Oat & Sons, Joseph, 232 Quarry St.

Sugar Machinery, Cane—*cont.*

Pa., Pittsburgh
Marshall Foundry Co., 28th and Railroad Sts.
Pa., York
Steacy-Schmidt Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Sulphate Pulp Plants (*see also Paper Machinery*)

Mass., Fall Fiver
Scott & Co., Ernest, P. O. Box 259

Sulphite Pulp Plants (*see also Paper Machinery*)

Sulphite-Waste Recovery Plants

N. Y., Buffalo
Zaremba Co., Morgan Bldg.

Sulphonators

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. J., Elizabeth
Moore & Sons, Corp., Samuel L.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P.
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Machinery Utilities Co., Inc., 501 5th Ave.
Stevens Brothers, 149 Broadway
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Valley Iron Works

Sulphur Apparatus

N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Sulphur Black Plants

Mass., Boston
Badger & Sons Co., R. E., 63-75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.

Sulphur Blue Plants

Mass., Boston
Badger & Sons Co., R. E., 63-75 Pitts St.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.

Surveying Instruments

N. Y., Rochester
Bausch & Lomb Optical Co.
N. Y., Troy
Gurley, W. & L. E.

Switchboard Equipment

Mass., South Boston
Condit Electrical Mfg. Co.
N. Y., Schenectady
General Electric Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Switchboards

N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Switches, Electric

Mich., Detroit
Detroit Fuse & Mfg. Co., 1400-1414 Rivard St.
N. Y., Albany
Consolidated Car Heating Co.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Switches, Electric Motor

Mass., South Boston
Condit Electrical Mfg. Co.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Switches, Motor Protective

Mass., South Boston
Condit Electrical Mfg. Co.

Switches, Oil

Mass., South Boston
Condit Electrical Mfg. Co.

Switches (Pyrometer)

N. Y., Rochester
Taylor Instrument Cos.

Synchroscopes

N. J., Newark
Weston Electrical Instrument Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.

Syphons, Acid

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
N. Y., New York City
General Ceramics Co., 50 Church St.
Schwenker, Inc., W. M., 340-344 E. 92d St.
Sidio Co. of America, Inc., 37 Murray St.
Standard Scientific Co., 147 Waverly Pl.
Ohio, East Akron
Knight, Maurice A.
N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.

Syphons, Steam

N. Y., New York City
Duriron Castings Co., 90 West St.

Syphons, Lead, with Stoneware Steam Nozzle

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Syringes, Bulb

Mass., Andover
Tyer Rubber Co.

Syringes, Glass

Mass., Boston
Randall, Faichney & Co.
N. Y., New York City
Maris & Co., J. M., 40 Barclay St.

Syringes, Hard Rubber

Mass., Andover
Tyer Rubber Co.
N. J., Belleville
Hardman Tire & Rubber Co.
N. Y., New York City
American Hard Rubber Co., 111 Mercer St.
Borgfeldt & Co., Geo., 16th St. & Irving Place.

Syringes, Storage Battery Hydrometer

N. Y., New York City
American Thermo-Ware Co., 16 Warren St.

Systems, Filing

Mass., Cambridge
Library Bureau
Mich., Muskegon
Shaw-Walker Co., The
N. Y., Rochester
Yawman & Erbe Mfg. Co.
Ohio, Canton
Canton Art Metal Co.

Tables, Concentrating (*see Concentrators, Ore*)

Tables, Laboratory

Ill., Chicago
Peterson & Co., Leonard, 1240 Fullerton Ave.
N. Y., New York City
Alberene Stone Co., 223 W. 23d St.
Hospital Supply Co., 53 5th Ave.
Vt., Burlington
Champlain Mfg. Co.

Tables, Steel

Ill., Aurora
Lyon Metallic Mfg. Co.

Tabs, Index

Mass., Framingham
Dennison Mfg. Co.

Tachometers, Indicating

Conn., Hartford
Veeder Mfg. Co.
Conn., Waterbury
Bristol Co.
Mass., Ashland
Lombard Governor Co.
Mass., Foxboro
Foxboro Co., Inc.
N. J., Newark
Weston Electrical Instrument Co., Waverly Park
N. Y., Brooklyn
Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.
Tagliabue Mfg. Co., C. J., 18-88 33d St.
N. Y., New York City
Schuchardt & Schutte, 90 West St.
Wilson-Maeulen Co., 781 E. 142d St.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Philadelphia
Biddle, James G., 1211-13 Arch St.
Brown Instrument Co.
Electric Tachometer Corp., Perry Bldg.

Tachometers, Mercurial

Pa., Philadelphia
Brown Instrument Co.

Tachometers, Recording (*see Tachometers, Indicating*)

Tachoscopes

N. Y., New York City
Schuchardt & Schutte, 90 West St.
Pa., Philadelphia
Biddle, James G., 1211-13 Arch St.

Tags, Celluloid

N. Y., New York City
Napier-Browning Co., 105 W. 40th St.

Tags, Cloth

Ill., Chicago
American Tag Co., State and 61st St.
Mich., Battle Creek
American Mfg. Co.

Tags, Marking

Mich., Battle Creek
Keyes-Davis Co., Ltd.

Tags, Shipping

Mass., Framingham
Dennison Mfg. Co.

Tags, System

Mass., Framingham
Dennison Mfg. Co.

Tanks, Acetylene (*see Tanks, Gas*)

Tanks, Acid Proof

England, Stanningley, nr. Leeds
Leeds & Bradford Boiler Co., Ltd.
Ga., Newman
Cole Mfg. Co., R. D.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Eagle Tank Co., 2426 N. Crasford Ave.
Ky., Louisville
Caldwell Co., W. E.
Md., Baltimore
Baltimore Cooperage Co., The
Bartlett-Hayward Co.
Mass., Boston
Badger & Sons Co., E. B.
Lummus Co., Walter E.
Mass., Fall River
Scott & Co., Ernest
N. J., East Burlington
United States Cast Iron, Pipe & Foundry Co.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Jersey City
Koven & Bro., L. O., 200 Ogden Ave.
N. J., New Brunswick
India Rubber Co.
N. Y., Brooklyn
Buffalo Engineering Co.
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
Akerlund & Semmes, Inc., 17 Battery Pl.
Dover Boiler Works, 50 Church St.
Duriron Castings Co., 90 West St.
Jacoby, Henry E., 95 Liberty St.
General Ceramics Co., 50 Church St.
Van Emden Co., H., 145 W. 45th St.
Stevens Bros., 149 Broadway
N. Y., Rochester
Pfaudler Co., The
N. C., Charlotte
Chemical Construction Co.
Ohio, Akron
Goodrich Co., B. F.
U. S. Stoneware Co.
Ohio, Cincinnati
Hauser-Stander Tank Co.
Ohio, Dayton
Buckeye Boiler Co., 1617 McLain St.
Ohio, East Akron
Knight, Maurice A.
Ohio, Elyria
Elyria Enameled Products Co.
Ohio, Niles
Standard Boiler & Plate Iron Co.
Ohio, Warren
Warren City Tank & Boiler Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., Fullerton
Lehigh Foundry Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Tanks, Acid Resisting, Enameled

N. Y., New York City
Mott Iron Works, J. L., 118 5th Ave.
N. Y., Rochester
Pfaudler Co.
Ohio, Elyria
Elyria Enameled Products Co.

Tanks, Acid, Wire Mill

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Tanks, Air

Cal., Los Angeles
Llewellyn Iron Works
Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
Mich., Muskegon
Muskegon Boiler Works
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
Ohio, Akron
Biggs Boiler Works Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Aluminum

N. Y., Buffalo
Devine Co., J. P.
Pa., Pittsburgh
Aluminum Co. of America

Tanks, Ammonia

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Tanks, Anhydrous-Ammonia

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Tanks, Blow Off

Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Brine

Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.

Tanks, Car

N. Y., New York City
Dover Boiler Works, 50 Church St.
Ohio, Niles
Standard Boiler & Plate Iron Co.

Tanks, Carbonating

N. J., Burlington
United States Cast Iron, Pipe & Foundry Co.

Tanks, Carbonic Acid Gas

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Tanks, Chemical (*see Tanks, Acid Proof*)

N. Y., Buffalo
Buffalo Foundry & Machine Works
Devine Co., J. P.
Farrar & Trefts, Inc., 47 Perry St.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
Weeks, A. J.
Ohio, East Akron
Knight, Maurice A.
Ohio, Elyria
Elyria Enameled Products Co.

Tanks, Cast Iron

England, Stanningley, nr. Leeds
Leeds & Bradford Boiler Co., Ltd., The
Ill., Batavia
Sperry & Co., D. R.
Ky., Louisville
Caldwell Co., W. E.
Md., Baltimore
Baltimore Cooperage Co.
N. J., East Burlington
U. S. Cast Iron Pipe & Foundry Co.
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Akerlund & Semmes, Inc., 17 Battery Pl.
Duriron Castings Co., 90 West St.
Jacoby, Henry E., 95 Liberty St.
Machinery Utilities Co., Inc., 501 5th Ave.
Van Emden Co., H., 145 W. 45th St.
Pa., Conshohocken
Wood Mfg. Co., John
Pa., Fullerton
Lehigh Foundry Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Pa., Williamsport
Keeler Co., E.

Tanks, Chlorine

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Tanks, Compressed Air

Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Tanks, Copper

Mass., Boston
Badger & Sons Co., R. E., 63-75 Pitts St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Griscom-Russell Co., 90 West St.
Machinery Utilities Co., Inc., 501 5th Ave.
Roos' Sons, August, 429 E. 91st St.
Ohio, Akron
Biggs Boiler Works Co.

Tanks, Copper Lined (*see also Tanks, Copper*)

N. Y., New York City
Acme Tank Co., 39 Cortlandt St.

Tanks, Creosoting

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Ohio, Akron
Biggs Boiler Works Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Tanks, Crystallizing

N. Y., Buffalo
Devine Co., J. P.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Tanks, Cyanide (*see also Tanks, Acid*)

Md., Baltimore
Baltimore Cooperage Co., The

Tanks, Dipping

England, Deepfields, nr. Bilshire, Staffs
Cannon Iron Foundries, Ltd.

Tanks, Dissolving (*see also Tanks, Aaid*)

N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.

Tanks, Dissolving, Automatic

Mass., Boston
Lummus Co., The Walter E.

Tanks, Drip

Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Drowning

N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.

Tanks, Dyes

Ky., Louisville
Caldwell Co., W. E.
Ohio, Akron
Biggs Boiler Works Co.
Ohio, Cincinnati
Hauser-Stander Tank Co.

Tanks, Elevator

Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Expansion

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.

Tanks, Filter

Ohio, Cincinnati
Hauser-Stander Tank Co.
Md., Baltimore
Baltimore Cooperage Co., The

Tanks, Galvanized

Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
Mich., Detroit
Detroit Range Boiler Co.
Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Galvanized, Acid Proof

N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, East Akron
Knight, Maurice A.

Tanks, Gas

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Welding Supply Co., Inc., 132 Nassau St.
Pa., Pittsburgh
National Tube Co., Frick Bldg.

Tanks, Gasoline Storage

Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
Ohio, Dayton
Buckeye Boiler Co., 1617 McLain St.
Pa., Coatesville
Coatesville Boiler Works
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., 221 1st Ave.

Tanks, Glass Enameled (Lead or Steel Lined)

N. Y., Rochester
Pfaudler Co., The
Ohio, Elyria
Elyria Enameled Products Co.

Tanks, Gravity, Automatic Sprinkler

Md., Baltimore
Baltimore Cooperage Co., The

Tanks, High Pressure

N. Y., New York City
Kellogg Co., The M. W., 90 West St.

Tanks, Iron (*see Tanks, Cast Iron*)

Tanks, Jacketed

Cal., Los Angeles
Llewellyn Iron Works
Mich., Bay City
MacKinnon Boiler & Machine Co.

Tanks, Jacketed—*cont.*

Mich., Saginaw
Wickes Boiler Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
Devine Co., J. P.
N. Y., New York City
Dover Boiler Works, 50 Church St.
Turl Iron & Car Co., Inc., 50 Broad St.
United Lead Co., 111 Broadway
Ohio, Cincinnati
Day Co., J. H., 1144 Harrison Ave.
Pa., Coatesville
Coatesville Boiler Works
Pa., Philadelphia
Stokes Machine Co., F. J.

Tanks, Lead Lined, Wood

Ohio, Cincinnati
Hauser-Stander Tank Co.

Tanks, Lead Lined

Ill., Chicago
Eagle Tank Co., 2426 N. Crawford Ave.
Ky., Louisville
Caldwell Co., W. E.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
United Lead Co., 111 Broadway
N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.
Ohio, Cincinnati
Hauser-Stander Tank Co.

Tanks, Mixing

Cal., Los Angeles
Llewellyn Iron Works
Ind., Ft. Wayne
Bowser & Co., S. F.
Ky., Louisville
Caldwell Co., W. E.
Md., Baltimore
Baltimore Cooperage Co., The
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Wickes Boiler Co.
N. J., Burlington
Stuart & Peterson
N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.
N. Y., Buffalo
Devine Co., J. P.
Sowers Mfg. Co., 1300 Niagara St.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
N. Y., Rochester
Pfaudler Co.
Ohio, Akron
Biggs Boiler Works Co.
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Tanks, Mixing, Enamel Lined

N. Y., Rochester
Pfaudler Co., The

Tanks, Oil

England, Widnes
Widnes Foundry Co., Ltd., The
N. Y., New York City
Dover Boiler Works, 50 Church St.
Pa., Coatesville
Coatesville Boiler Works
Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Oil, Fusel

Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.

Tanks, Oil, Lubricating

Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.

Tanks, Oil Refining

Ohio, Niles
Standard Boiler & Plate Iron Co.

Tanks, Oil Storage

Pa., Coatesville
Coatesville Boiler Works

Tanks, Oxygen

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Tanks, Paint and Varnish

N. Y., Rochester
Pfaudler Co., The

Tanks, Petroleum

England, Widnes
Widnes Foundry Co., Ltd., The

Tanks, Pickling

N. Y., New York City
General Ceramics Co., 50 Church St.
Duriron Castings Co., 90 West St.
Ohio, East Akron
Knight, Maurice A.

Tanks, Pneumatic

Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Powder

Md., Baltimore
Baltimore Cooperage Co., The

Tanks, Pressure

Md., Baltimore
Baltimore Cooperage Co., The
Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
Mich., Muskegon
Muskegon Boiler Works
Mo., St. Louis
Ruemmeli-Dawley Mfg. Co., 3900 Chouteau Ave.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Dover Boiler Works, 50 Church St.
Stevens Bros., Singer Bldg.
Ohio, Niles
Standard Boiler & Plate Iron Co.
Pa., Coatesville
Coatesville Boiler Works
Pa., Conshohocken
Wood Mfg. Co., John
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., 221 1st Ave.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Tanks, Pressure, Cylindrical Steel

Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.

Tanks, Rectangular

Md., Baltimore
Baltimore Cooperage Co., The

Tanks, Redwood

N. Y., New York City
Acme Tank Co., 39 Cortlandt St.

Tanks, Rubber Lined

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Tanks, Self Measuring

Ind., Ft. Wayne
Bowser & Co., Inc., S. F.

Tanks, Sprinkler

Ill., Chicago
Chicago Bridge & Iron Works, 37 W. Van Buren St.
Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Soda Washing

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Tanks, Steam Jacketed, Agitating

N. Y., Rochester
Pfaudler Co.
Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.

Tanks, Steel

Md., Baltimore
Baltimore Cooperage Co., The
Codd Co., E. J., 700 S. Caroline St.
Mich., Detroit
Detroit Range Boiler Co.
Welded Steel Barrel Corp.
Mich., Muskegon
Muskegon Boiler Works
N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
American Bridge Co., 30 Church St.
Burhorn Co., Edwin, 71 Wall St.
N. Y., Woodbury
Hodges Water Still Co., Inc., 33 S. Broad St.
Ohio, Cleveland
Bartlett & Snow Co., C. O.
Pa., Coatesville
Coatesville Boiler Works

Tanks, Steel, Glass Enamel Lined

N. Y., Rochester
Pfaudler Co., The

Tanks, Steel, Galvanized

Md., Baltimore
Baltimore Cooperage Co., The
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Stevens Bros., Singer Bldg.

Tanks, Steel Rendering

Ill., Chicago
Redfield, Robert S., 327 S. La Salle St.

Tanks, Steel, Seamless

Ohio, Elyrian
Elyria Enameled Products Co.
Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Steel, Welded

N. Y., New York City
Cave Welding & Mfg. Co., 32 Liberty St.

Tanks, Stone

Ill., Monmouth
Western Stoneware Co.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Tanks, Storage

England, Widnes
Widnes Foundry Co., Ltd., The
Ill., Chicago
Chicago Bridge & Iron Works, 37 W. Van Buren St.
Ind., Ft. Wayne
Wayne Oil Tank & Pump Co.
Md., Baltimore
Baltimore Cooperage Co., The
Mich., Muskegon
Muskegon Boiler Works
N. Y., New York City
General Ceramics Co., 50 Church St.
Tirrill Gas Machine Lighting Co., 103 Park Ave.
N. Y., Rochester
Pfaudler Co., The
Ohio, Alliance
Reeves Bros. Co., 338 Rush St.
Ohio, Cincinnati
Hauser-Stander Tank Co.
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., 221 1st Ave.
Wis., Milwaukee
Milwaukee Boiler Co., 220 Oregon St.

Tanks, Storage, Underground

N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Tanks, Storage, Cylindrical Steel

Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.

Tanks, Storage, Oil

Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.

Tanks, Storage, Rectangular Open Top

Ohio, Akron
Biggs Boiler Works Co., Kent St. and B. & O. R. R.

Tanks, Tar

N. Y., New York City
Dover Boiler Works, 50 Church St.
N. Y., Rochester
Pfaudler Co., The
Ohio, Akron
Biggs Boiler Works Co.

Tanks, Tin Lined (*see Tanks, Lead Lined*)

Tanks, Tower

Ga., Newman
Cole Mfg. Co., R. D.

Tanks, Transportation, Steel

Ohio, Alliance
Reeves Bros. Co., 338 Rush St.

Tanks, Turpentine

England, Widnes
Widnes Foundry Co., Ltd., The

Tanks, Vacuum

N. Y., Buffalo
Devine Co., J. P.
N. Y., New York City
Dover Boiler Works, 50 Church St.

Tanks, Water

N. Y., New York City
Dover Boiler Works, 50 Church St.
Ohio, Cincinnati
Hauser-Stander Tank Co.
Pa., Hamburg, Berks Co.
Hamburg Boiler Works

Tanks, Water Cooling

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Tanks, Water, Pneumatic

Md., Baltimore
Baltimore Cooperage Co., The

Tanks, Water Storage

Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.

Tanks, Water Tempering

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Tanks, Welded

Ill., Chicago
Mohr & Sons, John, 349-359 W. Illinois St.
Mass., Cambridge
Riverside Boiler Works, Inc., 491 Main St.
Mich., Detroit
Welded Steel Barrel Corp.

Tanks, Welded *cont.*

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Brooklyn
Meurer Steel Barrel Co.
N. Y., Buffalo
Devine Co., J. P.
N. Y., Rochester
Pfaudler Co., The
Pa., Carbondale
American Welding Co.
Pa., Meadville
Phoenix Iron Works Co.
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., 221 1st Ave.

Tanks, Wood

Ill., Batavia
Challenge Co.
U. S. Wind Engineering & Pump Co.
Ill., Chicago
Eagle Tank Co., 2426 N. Crawford Ave.
Wendnagel & Co., 22d and Jefferson Sts.
Ky., Louisville
Caldwell Co., W. E.
Md., Baltimore
Baltimore Cooperage Co., The
N. J., Hoboken
Schwarzwalder & Sons, Inc., J., 15th and Jefferson Sts.
N. J., Newark
Hanson & Van Winkle Co., 269 Oliver St.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
Ohio, Cincinnati
Hauser-Stander Tank Co., 2118 Division St.
Ore., Portland
National Tank & Pipe Co., 275 Oak St.

Tanks, Zinc Lined

N. Y., New York City
Acme Tank Co., 39 Cortlandt St.

Tanning Machinery

Del., Wilmington
Slocomb & Co., Inc., F. F.
Mass., Boston
Badger & Sons Co., E. B., 73 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Peabody
Turner Tanning Machinery Co.
N. Y., Buffalo
Sowers Mfg. Co.

Tape, Adhesive Transparent

Mass., Framingham
Dennison Mfg. Co.

Tape, Cloth, Gummed

Mass., Framingham
Dennison Mfg. Co.

Tar Dehydrating Apparatus

Pa., Pittsburgh
Koppers Co., H.

Tar Distilling Plants (*see also Stills, Oil*)

England, Stanningley, nr. Leeds
Leeds & Bradford Boiler Co., Ltd., The
Pa., Pittsburgh
Koppers Co., H.
Scotland, Glasgow
Blair, Campbell & McLean, Ltd., Woodville St., Govans

Tar Testing Apparatus

Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Tees

Ohio, Akron
Goodrich Co., B. F.

Telescope, Reading

Ill., Chicago
Gaertner & Co., Wm., 5345 Lake Park Ave.

Testers (*see also Specific Headings*)

Testers, for Butter Fat

Ill., Chicago
Mojonnier Bros. Co., 833 W. Jackson Blvd.

Testers, Calorimeter

N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.

Testers, Gas

N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.

Testers, Gravity

N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.

Testers, Hardness

N. Y., New York City
Holz, Herman A., 1 Madison Ave.
Palo Co., 90 Maiden Lane
Pa., Pittsburgh
Scientific Materials Co., 711 Forbes St.

Testers, Milk (Babcock)

Ill., Chicago
Creamery Package Mfg. Co., 61 W. Kinzie St.
Mojonnier Bros. Co., 833 W. Jackson Blvd.
Mass., Brighton
International Equipment Co., 352 Western Ave.

Testers, Naphthalene

N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.

Testers, Overrun

Ill., Chicago
Mojonnier Bros. Co., 833 W. Jackson Blvd.

Testers, Sulphur

N. Y., New York City
Connelly Iron Sponge & Governor Co., 227 Fulton St.

Test Tubes (*see Tubes, Tests; see Laboratory Apparatus and Equipment*)

Testing Instruments (*see also Specific Headings*)

Testing Apparatus, By-Product

Pa., Pittsburgh
Scientific Materials Co., 711-19 Forbes St.

Testing Machines (*see also Specific Headings*)

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Daigger & Co., A., 52-56 W. Kinzie St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Holz, Herman A., 1 Madison Ave.
Palo Co., 90-92 Maiden Lane
Pa., Philadelphia
Olsen Testing Machine Co., Tinius, 500 N. 12th St.
Riehle Bros. Testing Machine Co., 1424 N. 9th St.
*Thomas Co., Arthur H., W. Washington Sq.

Thawers, Ground

Ohio, Cincinnati
Macleod Co., The, 2232-36 Bogen St.

Thermocouples

Mich., Detroit
Hoskins Mfg. Co., 453-471 Lawton Ave.
N. Y., Rochester
Taylor Instrument Cos.

Thermoline

Pa., Pittsburgh
Pittsburgh Thermoline Co., S. 20th and Wharton Sts.

Thermometers, Electrical (*see Thermometers, Recording*)

Thermometers (Electric Resistance)

Conn., Waterbury
Bristol Co.
Mass., Foxboro
Foxboro Co., Inc.
Conn., Waterbury
Bristol Co.
N. J., Newark
Hanovia Chemical & Mfg. Co., Chestnut St. and New Jersey Railroad Ave.
N. Y., New York City
Engelhard, Charles, 30 Church St.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Philadelphia
Brown Instrument Co.
Leeds & Northrup Co.
Thomas Co., Arthur H., W. Washington Sq.
Thwing Instrument Co., 436 N. 5th St.

Thermometers, Feed Water

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.

Thermometers, High Range

N. Y., Brooklyn
Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.
N. Y., Rochester
Taylor Instrument Cos.

Thermometers, Indicating

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.

Thermometers, Laboratory

N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.

Thermometers, Mercurial

Mass., Boston
Standard Thermometer Co.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 33d St. and 3d Ave.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Philadelphia
Brown Instrument Co.

Thermometers, Recording

Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
Daigger & Co., A., 52-56 W. Kinzie St.
Laboratory Materials Co., 7404 Calumet Ave.
Schaar & Co., 1025 S. State St.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Ashton Valve Co., 271 Franklin St.
Crosby Steam Gage & Valve Co., 40 Central St.
Standard Thermometer Co., 65 Shirley St.
Mass., Foxboro
Foxboro Co., Inc.
N. J., Rutherford
Becton, Dickinson & Cos.
N. Y., Brooklyn
National Gauge Co., 300 Pacific St.
Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.
Tagliabue Mfg. Co., C. J., 33d St. and 3d Ave.
N. Y., New York City
American Thermo-Ware Co., 16 Warren St.
Berge, J. & H., 95 John St.
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 211 3d Ave.
Greiner Co., The Emil, Fulton and Cliff Sts.
Lenz Apparatus Co., Inc., 18 E. 16th St.
N. Y., Rochester
Taylor Instrument Cos.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
Brown Instrument Co.
Caloris Co., 2110 Alleghany Ave.
Philadelphia Thermometer Co., 9th and Arch Sts.
Queen-Gray Co., 616-620 Chestnut St.
Quimby Engineering Co., 450 N. 10th St.
Thomas Co., Arthur H., W. Washington Sq.
Williams-Brown & Earle, 918 Chestnut St.
Pa., Pittsburgh
Scientific Materials Co., 711 Forbes St.

Thermometers, Refrigerating

N. Y., New York City
Schwenker, Inc., W. M., 340-344 E. 92d St.

Thermometers, Registering (*see Thermometers, Recording*)

Thermometers, Technical

Ill., Chicago
Daigger & Co., A., 52-56 W. Kinzie St.
Pa., Philadelphia
Precision Thermometer & Instrument Co., 1434 Brandywine St.
Queen-Gray Co., 618 Chestnut St.

Thermostats

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Chicago Surgical & Electrical Co., 314 W. Superior St.
National Regulator Co., 208 S. Jefferson St.
Powers Regulator Co., 5 S. Wabash Ave.
Mass., Boston
Standard Thermometer Co., 65 Shirley St.
Mass., Foxboro
Foxboro Co., Inc.
N. J., Newark
American Thermostat Co., 101 Mechanic St.
Thermo Electric Instrument Co.
N. Y., Brooklyn
Tagliabue Mfg. Co., C. J., 18 33d St.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Sarco Co., Inc., Woolworth Bldg.
Pa., Philadelphia
Steele Glass Co., 622 Locust St.

Thermostats, Electric

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
N. J., Newark
Thermo Electric Instrument Co., 8 Johnson St.
N. Y., Albany
Consolidated Car Heating Co.
N. Y., New York City
Gold Car Heating & Lighting Co., 17 Battery Pl.
Wis., Milwaukee
Johnson Service Co.

Thermostats, Electric Temperature Control

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Thermostats, Heat Control

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Minn., Minneapolis
Minneapolis Heat Regulator Co., 2747 4th Ave., S.

Thermostats, Heat Control— *cont.*

N. Y., New York City
Gold Car Heating & Lighting Co., 17 Battery Pl.
Wis., Milwaukee
Johnson Service Co.

Thermostats, Instantaneous

Pa., Mechanicsburg
Scientific Instrument & Electrical Machine Co.

Thickening Apparatus

N. Y., New York City
Dorr Co., The, 17 Battery Pl.

Thimbles, Extraction

Mass., Worcester
Norton Co., New Bond St.
N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.

Tile, Acid Proof

Ga., Atlanta
Hood Brick Co., B. Mifflin
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
Mo., St. Louis
Laclede-Christy Clay Products Co., Sulphur and Manchester Aves.
N. Y., New York City
General Ceramics Co., 50 Church St.
Maurer & Son, Henry, 120 E. 23d St.
Sidio Co. of America, Inc., 37 Murray St.
Thermal Syndicate, Ltd., The, 50 E. 41st St.
Ohio, Akron
U. S. Stoneware Co.

Tile, Chemical

Mo., St. Louis
Laclede-Christy Clay Products Co., 1673 Railway Exchange Bldg.
N. C., Charlotte
Chemical Construction Co.

Tile, Cork

Pa., Pittsburgh
Armstrong Cork Co., 23d and Allegheny River

Tiles, Fire Clay

Colo., Denver
Denver Fire Clay Co.
Ga., Atlanta
Hood Brick Co., B. Mifflin, Candler Bldg.
Mo., St. Louis
Laclede-Christy Clay Products Co., 1673 Railway Exchange Bldg.

Tin Hydrants

N. Y., Elmira
Kennedy Valve Mfg. Co.

Tin Plates

Pa., Pittsburgh
American Sheet & Tin Plate Co., Frick Bldg.

Tin, Sheet Block

Mo., St. Louis
Hoyt Metal Co., 300 N. Broadway

Toluol Refining Plants

N. Y., Buffalo
Devine Co., J. P.
Scotland, Glasgow
Blair, Campbell & McLean, Ltd., Woodville St., Govans

Tongs

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Tongs, Crucible

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
N. J., Newark
Baker & Co., Inc.
Mich., Detroit
Hoskins Mfg. Co., 453 Lawton Ave.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
New Jersey Foundry & Machine Co., 88 West St.
Pa., Malvern
Bishop & Co., Platinum Works, J.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Tools, Chemical *(see Chemical Apparatus, Laboratory Aqparatus and Equipment)*

Tools, Copper

Ill., Chicago
Redlich Mfg. Co., 637 W. Oak St.

Tools, High Speed

Ohio, Cleveland
Cleveland Twist Drill Co.

Tools, Machine

N. Y., New York City
Niles-Bement-Pond Co., 111 Broadway
Ohio, Cincinnati
Houston-Stanwood & Gamble Co., The

Torches, Blow

Ind., Indianapolis
Presto-Lite Co.
Mich., Detroit
Clayton & Lambert Mfg. Co.
N. Y., New York City
Oxy-Acetylene Co.
Ohio, Canton
Sun Vapor & Street Light Co.
Ohio, Cincinnati
Macleod Co., 2232-36 Bogen St.
Ohio, Cleveland
Bishop-Babcock-Becker Co.
Pa., Philadelphia
Hero Mfg. Co.
Pa., Pittsburgh
Carbo-Hydrogen Co.

Torpedoes

Conn., New Haven
Marlin Arms Corp.

Tourills, Cellarius

Ill., Monmouth
Western Stoneware Co.
Mass., Boston
Eastern Clay Goods Co., 141 Milk St.
Ohio, Akron
U. S. Stoneware Co.
Weeks, W. J.
Ohio, East Akron
Knight, Maurice A.

Tourills, Normal

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.

Tower Pipe, Bottoms and Intermediators

Mass., Boston
Eastern Clay Goods Co., 141 Milk St.

Towers, Absorption

N. J., Newark
Acid Proof Iron Products Co.
N. Y., New York City
Duriron Castings Co., 90 West St.
Thermal Syndicate, Ltd., 50 E. 41st St.
N. C., Charlotte
Chemical Construction Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Towers, Acid Proof Masonry

N. C., Charlotte
Chemical Construction Co.

Towers, Acid Proof Stoneware

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Towers, Cooling

Ia., Burlington
Murray Iron Works Co.
Mo., St. Louis
Ruemmeli-Dawley Mfg. Co., 3900 Chouteau Ave.
N. J., Carteret
Wheeler Condenser & Engineering Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Burhorn Co., Edwin, 71 Wall St.
Cooling Tower Co., 17 John St.
Worthington Pump & Machinery Corp., 115 Broadway
Pa., Philadelphia
Wheeler Mfg. Co., C. H.
Pa., Sharon
Petroleum Iron Works Co.

Towers, Condensing (*see Towers, Cooling*)

Towers, Acid, Metal

Mass., Boston
Badger & Sons Co., E. B.
Lummus Co., Walter E.
Mass., Fall River
Scott & Co., Ernest
N. J., Perth Amboy
Chemical Pump & Valve Co., Inc.
N. Y., New York City
Duriron Castings Co., 90 West St.
N. C., Charlotte
Chemical Construction Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Towers, Denitration (*see also Towers, Acid Proof*

N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.

Towers, Gay-Lussac

N. C., Charlotte
Chemical Construction Co.
N. J., Perth Amboy
Chemical Pump & Valve Co.
N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.

Towers, Glover

N. C., Charlotte
Chemical Construction Co.
N. J., Perth Amboy
Chemical Pump & Valve Co.
N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.

Towers, Masonry

N. C., Charlotte
Chemical Construction Co.

Towers, Sprinkler, Automatic

Md., Baltimore
Baltimore Cooperage Co., The

Towers, Steel

Cal., Los Angeles
Llewellyn Iron Works
Ill., Chicago
Wendnagel & Co., 22d and Jefferson Sts.
Md., Baltimore
Baltimore Cooperage Co., The

Towers, Wooden

Ky., Louisville
Caldwell Co., W. E., Brook and D Sts.
Md., Baltimore
Baltimore Cooperage Co., The

Tractors

Ill., Chicago
International Harvester Co. of America
Ind., La Porte
Advance-Rumeley Co.
Minn., Mankato
Mayer Bros. Co., 198 Rock St.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Transformers, Electric

N. J., Newark
Weston Electrical Instrument Co.
N. Y., New York City
Western Electric Co., 463 West St.
N. Y., Schenectady
General Electric Co.,
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Transits

N. Y., Rochester
Bausch & Lomb Optical Co.
Taylor Instrument Cos.
N. Y., Troy
Gurley, W. & L. E.

Traps, Air

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
Ia., Marshalltown
Fisher Governor Co.

Traps, Cast Iron

N. J., East Burlington
U. S. Cast Iron Pipe & Foundry Co.

Traps, Steam

Ill., Chicago
Crane Co.
Imperial Brass Mfg. Co.
Ia., Marshalltown
Dunham Co.
Fisher Governor Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
d'Este Co., Julian, 26 Canal St.
Sturtevant Co., B. F.
N. J., Camden
Warren Webster & Co.
N. Y., Brooklyn
Acton, John, 118 John St.
Tagliabue Mfg. Co., C. J., 33d St. and 3d Ave.
N. Y., New York City
Mott Iron Works, J. L., 118 5th Ave.
Sarco Co., Inc., 237 Broadway
Simmons Co., John, 110 Centre St.
N. Y., Woodbury
Hodges Water Still Co., Inc., 33 S. Broad St.
Ohio, Cincinnati
Williams Valve Co.
Ohio, Cleveland
Strong, Carlisle & Hammond Co.

Traps, Steam, Vacuum

N. Y., New York City
Sarco Co., Inc., 229 Broadway

Travelers

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.

Trays, Metal

N. J., Burlington
U. S. Cast Iron, Pipe & Foundry Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
Pa., Fullerton
Lehigh Foundry Co.

Trays, Stoneware

Ill., Monmouth
Western Stoneware Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Thermal Syndicate, Ltd., The, 50 E. 41st St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Trays, Steel

Ill., Aurora
Lyon Metallic Mfg. Co.

Trays, Wooden

N. Y., New York City
Aimone Mfg. Co., 430 E. 23d St.
Stokes & Co., Wm. A., 50 Howard St.
N. J., Rochester
Rochester Stamping Co.

Triangle, Chemists'

Mich., Detroit
Hoskins Mfg. Co., 453-471 Lawton Ave.
N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Sidio Co. of America, Inc., 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Carbondale
Griebel Instrument Co.

Trinitrotoluol Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
N. Y., Buffalo
Devine Co., J. P.

Tripods

Ill., Chicago
Chicago Pneumatic Tool Co., Fisher Bldg.
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Ingersoll-Rand Co.
N. Y., Troy
Gurley, W. & L. E.

Triturators

N. Y., Newburgh
Coldwell-Wilcox Co.
Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.
Pa., Philadelphia
Cresson-Morris Co., 18th and Allegheny Ave.

Troughs, Steel

Ill., Chicago
Link-Belt Co., W. 39th St. and Stewart Ave.
N. Y., New York City
Turl Iron & Car Co., Inc., 50 Broad St.
Pa., Coatesville
Coatesville Boiler Works

Troughs, Stoneware

N. Y., New York City
General Ceramics Co., 50 Church St.
Thermal Syndicate, Ltd., 50 E. 41st St.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Trucks, Core Oven

Ill., Aurora
Lyon Metallic Mfg. Co.
Mich., Detroit
Northern Engineering Works
N. Y., New York City
Howe Scale Co., 341 Broadway

Trucks, Electric

Ohio, Cleveland
Atlas Car & Mfg. Co.
Elwell-Parker Elec. Co.

Trucks, Foundry

Ill., Aurora
Lyon Metallic Mfg. Co.
Mass., Boston
Sturtevant Co., B. F.
Mich., Detroit
Northern Engineering Works
N. Y., New York City
Fairbanks Co.
Howe Scale Co., 341 Broadway

Trucks, Vulcanizing

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Tube Cleaners, Boiler

Conn., Hartford
Roto Co.
N. Y., Buffalo
General Specialty Co., 291-295 Michigan Ave.
Pierce Co., William B., 45 N. Division St.
N. Y., Troy
Monarch Steam Blower Co.
Ohio, Springfield
Lagonda Mfg. Co., 1809 Sheridan Ave.
Pa., Pittsburgh
Liberty Mfg. Co., 6907 Susquehanna St.

Tube Closer, Perfect Collapsible

Ohio, Cincinnati
Day & Co., J. H., 1144 Harrison Ave.

Tubes, Acid Condensing

N. J., Newark
Acid Proof Iron Products Co.
N. Y., New York City
Duriron Castings Co.
Pa., Pittsburgh
National Tube Co., Frick Bldg.

Tubes, Acid Condensing, Glass
N. Y., Corning
Corning Glass Works

Tubes, Alundum, High Temperature
Mass., Worcester
Norton Co., New Bond St.

Tubes, Asbestos
N. Y., New York City
Johns-Manville Mfg. Co.

Tubes, Brass, Copper, Bronze
Conn., Waterbury
American Brass Co.
Md., Baltimore
Baltimore Tube Co.
Mich., Detroit
Detroit Copper & Brass Rolling Mills, 95 Clark Ave.
N. Y., New York City
Hungerford & Co., U. T., 82 Lafayette St.

Tubes, Calcium Chloride
Pa., Carbondale
Griebel Instrument Co.

Tubes, Carbon
Ohio, Cleveland
National Carbon Co.
Pa., Carbondale
Griebel Instrument Co.

Tubes, Collapsible
Conn., New London
New England Collapsible Tube Co.

Tubes, Cooledge
N. Y., Schenectady
General Electric Co.

Tubes, Combustion
Colo., Golden
Herold China & Pottery Co.
N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.
Pa., Malvern
Bishop & Co., Platinum Works, J.

Tubes, Crystolon
Mass., Worcester
Norton Co., New Bond St.

Tubes, Drawn
N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.

Tubes, Drying
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Tubes, Filtering
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Tubes, Fractional Distillation
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.

Tubes, Glass *(see Glassware, Chemical*

Tubes, Laminated
Ill., Chicago
Redmanol Chemical Products Co., 636 W. 22d St.

Tubes, Outer Protection
Mass., Worcester
Norton Co., New Bond St.
Mich., Detroit
Hoskins Mfg. Co., 453-71 Lawton Ave.

Tubes, Pneumatic
Mass., Boston
Lamson & Co., 100 Boylston St.

Tubes, Pyrometer
N. Y., New York City
Sidio Co. of America, Inc., 37 Murray St.
Thermal Syndicate, Ltd., 50 E. 41st St.

Tubes, Pyrometer Alundum
Mass., Worcester
Norton Co., New Bond St.

Tubes, Pyrometer Protection
Mo., St. Louis
*Heil Chemical Co., Henry, 210-214 S. 4th St.
N. J., Jersey City
Dixon Crucible Co., Joseph
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Thermal Syndicate, Ltd., 50 E. 41st St.
N. Y., Niagara Falls
Carborundum Co.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.
Pa., Pittsburgh
Crucible Steel Co. of America

Tubes, Seamless, Brass
Md., Baltimore
Baltimore Tube Co.

Tubes, Tapered, Zirconia Combustion
Pa., Pittsburgh
Crucible Steel Co. of America

Tubes, Test

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
Daigger & Co., A., 52-56 W. Kinzie St.
N. Y., New York City
Berge, J. & H., 95 John St.
Bernard & Co., F. J., 70 Murray St.
Eimer & Amend, 205-211 3d Ave.
Maris & Co., J. M., 40 Barclay St.
Thermal Syndicate, Ltd., The, 50 E. 41st St.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
Fairmount Glass Works, 828 N. 23d St.
Steele Glass Co., 622 Locust St.
Thomas Co., Arthur H., W. Washington Sq.
Whitall-Tatum Co., 410 Race St.

Tubes, X-Ray

N. Y., Schenectady
General Electric Co.

Tubing, Acid

Mass., Boston
Boston Belting Co., 84 Linden Park St.
N. Y., New York City
Thermal Syndicate, Ltd., 50 E. 41st St.

Tubing, Alkali

Mass., Boston
Boston Belting Co., 84 Linden Park St.

Tubing, Alloy

Ohio, Shelby
Ohio Seamless Tube Co.

Tubing, Aluminum

Pa., Philadelphia
Ivins Tube Works, Ellwood, Oak Lane Station
Pa., Pittsburgh
Aluminum Co. of America

Tubing, Barometer

N. Y., Corning
Corning Glass Works

Tubing, Brass

Conn., Bridgeport
Bridgeport Glass Co.
Conn., Waterbury
American Brass Co.
Randolph-Clowes Co., The
Mich., Detroit
Detroit Copper & Brass Rolling Mills

Tubing, Brass and Copper (Seamless)

Conn., Waterbury
American Brass Co.
Chase Rolling Mill Co.
Randolph-Clowes Co., The
Conn., Bridgeport
Bridgeport Brass Co.
Ill., Chicago
Crane Co., 836 S. Michigan Ave.
Md., Baltimore
Baltimore Tube Co.
N. Y., New York City
Hungerford Brass & Copper Co., V. T., Lafayette, White and Franklin Sts.
Rutter, Arthur T., 256-257 Broadway
Pa., Erie
Erie-Buffalo Tube Co., 1227 W. 18th St.

Tubing, Canvas

Mo., St. Louis
Bemis Bros. Gag Co.

Tubing, Condenser

Conn., Waterbury
American Brass Co., The
Md., Baltimore
Baltimore Tube Co.
N. Y., New York City
General Ceramics Co., 50 Church St.
Hungerford Brass & Copper Co., U. T., 80 Lafayette Ave.
N. Y., Rome
Rome Brass & Copper Co.

Tubing, Copper

Conn., Bridgeport
Bridgeport Brass Co.

Tubing, Fibre

Conn., Bridgep rt
Diamond State Fibre Co.
Del., Wilmington
American Vulcanized Fibre Co.

Tubing, Flexible Metal

Conn., Waterbury
American Metal Hose Co.
Pa., Philadelphia
Pennsylvania Flexible Metallic Tubing Co.

Tubing, Lead

N. Y., Brooklyn
Standard Rolling Mill, 363 Hudson Ave.
N. Y., New York City
National Lead Co., 111 Broadway
United Lead Co., 111 Broadway
Pa., Bridgeport
Summerill Tubing Co.
Pa., Philadelphia
Ivins Tube Works, Ellwood, Oak Lane Station

Tubing, Platinum (Seamless)

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.

Tubing, Rubber

Conn., Bridgeport
Canfield Rubber Co., 129 Garden St.
Ill., Chicago
*Central Scientific Co., 460 E. Ohio St.
*Daigger & Co., A., 52-56 W. Kinzie St.
Mechanical Rubber Co., 307 W. Randolph St.
Mass., Boston
Boston Belting Co., 84 Linden Park St.
*Knott Apparatus Co., L. E., Cambridge "A" Station
Mass., Chelsea
Revere Rubber Co.
N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.
Eimer & Amend, 205-211 3d Ave.
Ohio, Akron
Goodrich Co., B. F.
Ohio, Ashland
Faultless Rubber Co.
Pa., Philadelphia
*Quaker City Rubber Co., 629 Market St.
*Thomas Co., Arthur H., W. Washington Sq.
*Whitall-Tatum Co., 410 Race St.
R. I., Bristol
National India Rubber Co.

Tubing, Rubber, Laboratory

Pa., Pittsburgh
*Scientific Materials Co., 711-19 Forbes St.

Tubing, Rubber, Pure Gum

N. Y., New York City
Reeve, Angel & Co., Inc., H., 120 Liberty St.

Tubing, Steel

Pa., Pittsburgh
National Tube Co.

Tubing, Steel (Seamless)

Pa., Philadelphia
Ivins' Tube Works, Ellwood, Oak Lane Station
Pa., Pittsburgh
National Tube Co., 1902 Frick Bldg.
Pittsburgh Steel Products Co.

Tubing, Thermometer

N. Y., Corning
Corning Glass Works

Tubing, Syringe

Mass., Andover
Tyer Rubber Co.

Tubs, Acid

Mass., Boston
Badger & Sons Co., E. B.
N. J., Burlington
U. S. Cast Iron, Pipe & Foundry Co.
N. Y., Buffalo
Buffalo Foundry & Machine Co.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.
General Ceramics Co., 50 Church St.
Van Emden Co., H., 145 W. 45th St.
Ohio, Cincinnati
Hauser-Standard Tank Co.
Ohio, Akron
U. S. Stoneware Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Tubs, Dye

N. Y., New York City
Acme Tank Co., 39 Cortlandt St.

Tubs, Etching

Ohio, East Akron
Knight, Maurice A.

Tubs, Wood

N. Y., New York City
Acme Tank Co., 39 Cortlandt St.

Turbines

Conn., Hartford
Terry Steam Turbine Co.
N. J., Trenton
De Laval Steam Turbine Co.
N. Y., Schenectady
General Electric Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Turntables

Pa., Philadelphia
Brill Co., J. G.

Turpentine Apparatus

Mass., Boston
Lummus Co., The Walter E.

Tweezers, Platinum

N. J., Newark
American Platinum Works, 225 N. J. R. R. Ave.
Baker & Co., Inc., 54 Austin St.

Ultra-Violet Ray Apparatus

N. Y., Schenectady
General Electric Co.

Ultra-Violet Ray, Quartz Lamps

N. J., Hoboken
Cooper Hewitt Electric Co.

Ultra-Violet Sets

N. Y., Schenectady
General Electric Co.

Unloaders, for Centrifugals

N. Y., New York City
Hepworth Co., S. S., 2 Rector St.

Vacuum Apparatus

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest
Mich., Saginaw
Werner & Pfleiderer Co., Inc.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Devine Co., J. P.
Zaremba Co., Morgan Bldg.
N. Y., New York City
General Ceramics Co., 50 Church St.
Hospital Supply Co., 53 5th Ave.
United Lead Co., 111 Broadway
Pa., Philadelphia
Stokes Machine Co., F. J., 17th and Cambria Sts.

Vacuum Dryers (*see Dryers, Vacuum*)

Vacuum Kneaders and Mixers

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Valves, Acetylene

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Valves, Acid

Md., Baltimore
Bartlett-Hayward Co.
Mass., Boston
American Steam Gauge & Valve Co.
Boston Belting Co., 84 Linden Park St.
N. J., Elizabeth
Moore & Sons Corp., Samuel L.
N. J., Perth Amboy
Chemical Pump & Valve Co., Inc.
N. Y., New York City
Duriron Castings Co., 90 West St.
General Ceramics Co., 50 Church St.
Simmons Co., John, 110 Center St.
United Lead Co., 111 Broadway
Ohio, Akron
Goodrich Co., B. F.
U. S. Stoneware Co.
Ohio, Cleveland
Cleveland Brass Mfg. Co., 4606-4700 Hamilton Ave.
Ohio, East Akron
Knight, Maurice A.
Pa., Coatesville
Coatesville Boiler Works
Pa., Pittsburgh
National Tube Co.
Pa., South Bethlehem
Bethlehem Foundry & Machine Co.

Valves, Alkali

Ill., Chicago
Crane Co.
Ia., Marshalltown
Fisher Governor Co.
Mass., Boston
American Steam Gauge & Valve Co.
Boston Belting Co., 84 Linden Park St.
Neb., Omaha
Baker Ice Machine Co.
N. J., New Brunswick
Brunswick Refrigerating Co.
N. Y., New York City
De La Vergne Machine Co.
Welding Supply Co., Inc., 132 Nassau St.

Valves, All Bronze

Pa., Williamsport
Darling Pump & Mfg. Co., Ltd.

Valves, All Iron

N. Y., New York City
Jenkins Brothers, 80 White St.
Pa., Williamsport
Darling Pump & Mfg. Co., Ltd.

Valves, Ammonia (*see Valves, Alkali*)

Valves, Blow-Off

Mass., Boston
American Steam Gauge & Valve Mfg. Co.
N. Y., New York City
Fairbanks Co.
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.
Pa., Pittsburgh
Homestead Valve Mfg. Co., P. O. Box 1754

Valves, Boiler

Ill., Chicago
Crane Co.

Valves, Boiler—*cont.*

Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.
Pa., Pittsburgh
Homestead Valve Mfg. Co., P. O. Box 1754

Valves, Brass

Ill., Chicago
Crane Co.
Ia., Marshalltown
Fisher Governor Co.
N. Y., New York City
Fairbanks Co.
Jenkins Brothers, 80 White St.
N. Y., Troy
Ludlow Valve Mfg. Co.
Pa., Homestead
Homestead Valve Mfg. Co.
Pa., Pittsburgh
National Tube Co.

Valves, Brass Regrinding

Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Valves, Chlorine

N. Y., New Yo k City
Welding Supply Co., Inc., 132 Nassau St.

Valves, Duplex Oil Tank

Ia., Dubuque
McDonald Mfg. Co., A. Y.

Valves, Electric, Steam, H.P.

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Valves, Electric, Steam, L.P.

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Valves, Float

Ill., Chicago
Crane Co.
Ia., Marshalltown
Fisher Governor Co.
Mass., Boston
Boston Steam Specialty Co., 185 Franklin St.
N. Y., New York City
Fairbanks Co.
Simmons Co., John
Pa., Homestead
Homestead Valve Mfg. Co.

Valves, Gas

N. Y., New York City
Equitherm Control Corp., 30 Church St.
Ohio, Cleveland
Gas Machinery Co.
Pa., Homestead
Homestead Valve Mfg. Co.
Pa., Pittsburgh
National Tube Co.

Valves, Gas and Air

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Valves, Gate

Ill., Chicago
Crane Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Crosby Steam Gauge & Valve Co.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., Troy
Ludlow Valve Mfg. Co.
Pa., Pittsburgh
National Tube Co., Frick Bldg.
Pa., Williamsport
Darling Pump & Mfg. Co., Ltd.

Valves, Generator

Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Valves, Globe

Ill., Chicago
Crane Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Crosby Steam Gauge & Valve Co.
N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Fairbanks Co.
Pa., Philadelphia
Wood & Co., D. R., 400 Chestnut St.
Pa., Pittsburgh
National Tube Co.

Valves, High Pressure, Gas

Ill., Chicago
Crane Co.
Mass., Boston
Crosby Steam Gauge & Valve Co.
N. Y., New York City
Fairbanks Co.
N. Y., Troy
Ross Valve Mfg. Co.

Valves, High Pressure, Gas—*cont.*

Ohio, Cleveland
Lennox Chemical Co., The, 1201 E. 55th St.
Pa., Pittsburgh
National Tube Co.

Valves, High Pressure, Steam

N. Y., Albany
Consolidated Car Heating Co.
Pa., Homestead
Homestead Valve Mfg. Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.

Valves, Hydraulic

Ill., Chicago
Crane Co.
Ia., Marshalltown
Fisher Governor Co.
Mass., Boston
American Steam Gauge & Valve Mfg. Co.
Boston Belting Co., 84 Linden Park St.
N. Y., Elmira
Kennedy Valve Mfg. Co.
Ohio, Mt. Gilead
Hydraulic Press Mfg. Co.
Pa., Philadelphia
Wood & Co., D. R., 400 Chestnut St.
Pa., Pittsburgh
National Tube Co.

Valves, Hydrogen

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Valves, Iron Body

N. Y., New York City
Jenkins Brothers, 80 White St.

Valves, Iron, Regrinding

Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Valves, Lead Check

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Valves, Lead Lined

N. J., Perth Amboy
Chemical Pump & Valve Co., Inc.
N. Y., Brooklyn
Johnson Co., John, 37th St. and 2d Ave.
United Lead Co., 111 Broadway

Valves, Iron, Lead Lined

N. Y., New York City
United Lead Co., 111 Broadway

Valves, Lead Stop

Pa., Philadelphia
Monarch Mfg. Works, 3129 Emery St.

Valves, Liquid Carbonic Acid Gas

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Valves, Metronome Governing

Mass., Boston
Boston Steam Specialty Co., 185 Franklin St.

Valves, Oil

N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Equitherm Control Corp., 30 Church St.
Fairbanks Co.

Valves, Oil and Air

N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Equitherm Control Corp., 30 Church St.
Fairbanks Co.

Valves, Oil and Steam

N. Y., Elmira
Kennedy Valve Mfg. Co.
N. Y., New York City
Equitherm Control Corp., 30 Church St.
Fairbanks Co.

Valves, Oil Burner

N. Y., Elmira
Kennedy Valve Mfg. Co.
Ohio, Cincinnati
Powell Co., The Wm., 2521 Spring Grove Ave.

Valves, Oil Resisting

Mass., Boston
Boston Belting Co., 84 Linden Park St.

Valves, Oxygen

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Valves, Phosgen

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Valves, Pressure Reducing

N. Y., New York City
International Oxygen Co., 115 Broadway

Valves, Pump

Conn., Bridgeport
Canfield Rubber Co.
Del., Wilmington
American Vulcanized Fibre Co.
Delaware Hard Fibre Co.
Mass., Boston
Boston Belting Co., 84 Linden Park St.
N. J., Passai
Dick, Ltd., R. & J.
N. Y., New York City
Gutta Percha & Rubber Mfg. Co., 128 Duane St.
Johns-Manville Co., H. W., 41st St. and Madison Ave.

Valves, Quarter-Turn, Acid Resisting Bronze

Pa., Pittsburgh
Homestead Valve Mfg. Co., P. O. Box 1754

Valves, Quarter-Turn, Brass

Pa., Pittsburgh
Homestead Valve Mfg. Co., P. O. Box 1754

Valves, Quarter-Turn, Semi-Steel

Pa., Pittsburgh
Homestead Valve Mfg. Co., P. O. Box 1754

Valves, Reducing

Ill., Chicago
Crane Co.
Ia., Marshalltown
Fisher Governor Co.
Mass., Boston
Boston Belting Co., 84 Linden Park St.
d'Este Co., Julian, 26 Canal St.
N. Y., New York City
Sarco Co., Inc., 237 Broadway
N. Y., Troy
Ross Valve Mfg. Co.
Ohio, Cincinnati
Triumph Ice Machine Co.

Valves, Steam Jacketed

N. Y., Buffalo
Devine Co., J. P.

Valves, Steel, Cast

N. Y., New York City
Jenkins Brothers, 80 White St.

Valves, Stoneware

N. Y., New York City.,
General Ceramics Co., 50 Church St.
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Valves, Sulphur Dioxide

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Valves, Vacuum

Ill., Chicago
Crane Co.
Ia., Marshalltown
Fisher Governor Co.
N. Y., New York City
Fairbanks Co.
Sarco Co., Inc., 237 Broadway

Valves, Water

N. Y., New York City
Equitherm Control Corp., 30 Church St.

Vapor Proof Fixtures

Ill., Chicago
Benjamin Electric Mfg. Co., 120 S Sangamon St.

Vats (*see Tubs, Acid*)

Vats, Acid Proof Stone

Ill., Monmouth
Western Stoneware Co.
Ohio, Akron
U. S. Stoneware Co.
Ohio, East Akron
Knight, Maurice A.

Vats, Rectangular

N. Y., Buffalo
Sowers Mfg. Co., 1300 Niagara St.

Vats, Wood

Ill., Batavia
Challenge Co.
Ill., Chicago
Eagle Tank Co., 2426 N. Crawford Ave.
N. J., Hoboken
Schwarzwalder & Sons, Inc., J., 15th and Jefferson Sts.
N. Y., New York City
Acme Tank Co., 39 Cortlandt St.

Vegetable Extract Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest

Ventilating Systems

Ill., Chicago
Ilg Electric Ventilating Co., 131 Whiting St.
Mass., Boston
Badger & Sons Co., R. E., 63-75 Pitts St.
Sturtevant Co., B. F.
Mich., Detroit
American Blower Co.
Mich., Kalamazoo
Clarage Fan Co.
N. Y., Buffalo
Buffalo Forge Co.
N. Y., New York City
Mott Iron Works, J. L., 118 5th Ave.

Ventilators *(see also Ventilating Systems)*

N. Y., New York City
Gerdes & Co., Inc., 30 Church St.

Ventilators, Revolving

R. I., Providence
New England Ventilating & Heating Co., 926 Manton Ave.

Vibrators, Pneumatic Foundry

Conn., Branford
Malleable Iron Fittings Co.
Ohio, Cleveland
Osborn Mfg. Co.

Viscose Machinery

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.

Viscosimeters

N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
N. Y., Rochester
Bausch & Lomb Optical Co.
Pa., Philadelphia
Thomas Co., Arthur H., W. Washington Sq.

Voltmeters

Conn., Waterbury
Bristol Co.
Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
N. J., Newark
Weston Electrical Instrument Co., Waverly Park
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Pignolet, Louis M., 78 Cortlandt St.
Roller-Smith Co., 233 Broadway
Wilson-Maeulen Co., 781 E. 142d St.
Pa., Philadelphia
Biddle, James G., 1211-13 Arch St.
Brown Instrument Co.

Vulcanizers

N. J., Jersey City
Koven & Bro., L. O.
Ohio, Akron
Biggs Boiler Works Co.
Goodrich Co., B. F.

Wall Coping

Mo., St. Louis
Laclede-Christy Clay Products Co., 1673 Railway Exchange Bldg.

Ware, Acid

N. Y., New York City
General Ceramics Co., 50 Church St.
Robinson Clay Products Co. of New York, Fuller Bldg.
Ohio, Akron
U. S. Stoneware Co.

Warmers, Slide

Ill., Chicago
Chicago Surgical & Electrical Co., 314 W. Superior St.

Washers, Acid

Mass., Boston
Badger & Sons Co., R. E., 63-75 Pitts St.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., Buffalo
Devine Co., J. P.

Washers, Air

Ill., Chicago
Ilg Electric Ventilating Co., 131 Whiting St.
Mass., Boston
Sturtevant Co., B. F.
Mich., Detroit
American Blower Co.
Mich., Kalamazoo
Clarage Fan Co.
N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.
N. Y., New York City
Carrier Air Conditioning Co., 39 Cortlandt St.

Washers, Gum

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Washers, Leather

Mich., Detroit
Detroit Leather Specialty Co., Inc., 15 Beecher St.
N. Y., New York City
Schieren Co., Chas. A., 30-38 Ferry St.

Washers, Oil

N. J., Jersey City
Koven & Bro., L. O., 154 Ogden Ave.

Washers, Rubber

Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Ohio, Akron
Goodrich Co., B. F.
Ohio, Cleveland
Mechanical Rubber Co.

Washers, Vulcanized Fibre

Del., Wilmington
American Vulcanized Fibre Co.

Washing Processes

N. Y., New York City
Dorr Co., The, 17 Battery Pl.

Waste, Acid, Recovery Plants

N. C., Charlotte
Chemical Construction Co.

Waste, Gas, Recovery Plants

N. C., Charlotte
Chemical Construction Co.

Waste Product Recovery Machinery

N. Y., Buffalo
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
N. Y., New York City
Provost Engineering Corp., 220 Broadway

Water Analysis Apparatus

Pa., Pittsburgh
Scientific Materials Co., 711 Forbes St.

Water Baths

Ill., Chicago
Central Scientific Co., 460 E. Ohio St.
N. J., Newark
Thermo Electric Instrument Co.
N. Y., New York City
Eimer & Amend, 205-211 3d Ave.
Pa., Carbondale
Griebel Instrument Co.
Pa., Philadelphia
Boekel & Co., Wm., 518 Vine St.
Thomas Co., Arthur H., W. Washington Sq.

Water Baths, Laboratory, Enamel Lined

England, Deepfields, nr. Bilston, Staffs
Cannon Iron Foundries, Ltd.

Water Cooling Appliances (*see Air Conditioning and Air Purifying Apparatus*)

Water Distilling Apparatus

Mass., Fall River
Scott & Co., Ernest, P. O. Box 259
N. J., Hampton
Standard Water Systems Co.
N. J., Woodbury
Hodges Water Still Co., Inc., 33 S. Broad St.
N. Y., New York City
Alberger Pump & Condenser Co., 140 Cedar St.
Eimer & Amend, 205-211 3d Ave.
Pa., Waynesboro
Frick Co., Inc.

Waterproofing Finishes

N. Y., New York City
Cravenette Co., 354 4th Ave.

Water Proofing Materials

N. Y., New York City
Johns-Manville Co., H. W., 296 Madison Ave.
Texas Co., 17 Battery Pl.

Waterproof Paper

Mass., Boston
Flintkote Mfg. Co., 88 Pearl St.

Water Purifying Apparatus (*see Filters*)

Water Softening Systems

Ill., Chicago
International Filter Co.
Power Plant Specialty Co., 1306 Monadnock Bldg.
Ind., Mishawaka
Dodge Sales & Engineering Co.
Mass., Florence
Norwood Engineering Co.
N. J., Jersey City
Booth Co., L. M., 62 Hudson St.
N. Y., New York City
International Filtration Corp., 115 Broadway

Water Softening Systems—*cont.*

Pa., Philadelphia
American Water Softener Co., 1011 Chestnut St.
Harrison Safety Boiler Works, 3130 N. 17th St.
Pa., Pittsburgh
Scaife & Sons Co., Wm. B., 221 1st Ave.

Water Sterilizing Plants

Pa., Philadelphia
American Water Softener Co., 10th and Chestnut Sts.

Water Supply Systems

N. Y., New York City
Tirrill Gas Machine Lighting Co., 103 Park Ave.

Water Work Plants

Md., Baltimore
Baltimore Cooperage Co., The

Wattmeters

Conn., Waterbury
Bristol Co.
N. J., Newark
Weston Electrical Instrument Co., Waverly Park
N. Y., New York City
Bernard & Co., F. J., 70 Murray St.
Roller-Smith Co., 233 Broadway
Pa., Philadelphia
Biddle, James G., 1211-13 Arch St.
Brown Instrument Co.

Weighing Machinery (Automatic)

Ill., Chicago
Streeter-Amet Weighing & Recording Co., 4101-5 Ravenwood Ave.
Mass., Boston
Sturtevant Mill Co.
Mich., Saginaw
Werner & Pfleiderer Co., 1260 N. Niagara St.
Willcox Engineering Co.
N. J., Newark
Automatic Weighing Machine Co., 134-140 Commerce St.
N. J., Passaic
Richardson Scale Co.
N. Y., New York City
Conveying Weigher Co., 90 West St.
Electric Weighing Co., 180 13th Ave.
Fairbanks Co., 416 Broome St.

Weights, Metric, Precision

Colo., Denver
Ainsworth & Sons, William, 2151 Lawrence St.
N. Y., Troy
Gurley, W. & L. E.

Weights (*see Balances*)

Welding All Metals

Wis., Milwaukee
Vilter Mfg. Co., 824 Clinton St.

Welding Apparatus

Ill., Chicago
Bordette Mfg. Co.
Mass., Boston
Waterhouse Welding Co.
Pa., Philadelphia
Messer Mfg. Co., 121 N. 7th St.

Welding Apparatus for Shop and Laboratory

N. Y., New York City
Welding Supply Co., Inc., 132 Nassau St.

Welding Fluxes

Mass., Boston
Waterhouse Welding Co.
Mo., St. Louis
Modern Engineering Co., 23d and Walnut Sts.
Pa., Philadelphia
Messer Mfg. Co., 121 N. 7th St.

Welding Rods

Mass., Boston
Waterhouse Welding Co.

Wheels, Grinding (*see also Classified Lists*)

Conn., Bridgeport
Bridgeport Safety Emery Wheel Co., Inc.
Ill., Chicago
Chicago Wheel & Mfg. Co., 1101-1103 W. Monroe St.
Mass., Waltham
Superior Corundum Wheel Co.
Waltham Grinding Wheel Co.
Mass., Worcester
Bay State Emery Wheel Co.
Norton Co.
Mich., Detroit
Detroit Grinding Wheel Co.
Star Corundum Wheel Co.
N. Y., Buffalo
National Grinding Wheel Co., Inc., 2984 Main St.
N. Y., Niagara Falls
Carborundum Co.
Ohio, Springfield
Safety Emery Wheel Co.
Pa., Philadelphia
Abrasive Material Co.
Pa., Rochester
Pittsburgh Grinding Wheel Co.
R. I., Providence
American Emery Wheel Works

Wheels, Filtros

N. Y., Rochester
General Filtration Co., Inc., Cutler Bldg.

Wheels, Sprocket

Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Caldwell & Sons Co., H. W., 17th and Western Aves.
Pa., Catasauqua
Lehigh Car, Wheel & Axle Works

Wheels, Traction

Del., Wilmington
Walker & Elliott, Inc.
Pa., Catasauqua
Lehigh Car, Wheel & Axle Works

Wire Cloth

Conn., Southport
O'Neill Wire Works, Joseph
Del., Wilmington
Walker & Elliott, Inc.
Ill., Chicago
Weller Mfg. Co., 1820-1856 N. Kostner Ave.
Mass., Worcester
Weight Wire Co., 69 Hammond St.
Mich., Detroit
Michigan Wire Cloth Co., 536 Howard St.
N. J., Newark
Newark Wire Cloth Co., 222-28 Verona Ave.
N. J., Trenton
New Jersey Wire Cloth Co.
N. Y., Buffalo
Buffalo Wire Works Co., 480 Terrace St.
N. Y., Brooklyn
Howard & Morse, 1197-1211 De Kalb Ave.
N. Y., New York City
Multi-Metal Separating Screen Co.
Rogers Wire Works, Inc., 291 Broadway
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.
Pa., Philadelphia
Darby & Sons Co., Inc., Edward, 233-235 Arch St.

Wire Cloth, Monel Metal

N. J., Newark
Newark Wire Cloth Co.
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.

Wire Cloth, Mining

N. J., Newark
Newark Wire Cloth Co.
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.

Wire Cloth, Twilled

N. J., Newark
Newark Wire Cloth Co.
Ohio, Cleveland
Tyler Co., W. S., Superior Ave. and 36th St.

Wire Netting

N. J., Newark
Newark Wire Cloth Co.
N. J., Trenton
New Jersey Wire Cloth Co.
Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Wire, Brass and Copper

Conn., Southport
O'Neill Wire Works, Joseph
Conn., Waterbury
American Brass Co.
Mich., Detroit
Detroit Copper & Brass Rolling Mills, 95 Clark Ave.
N. J., Trenton
Roebling's Sons Co., John A.
N. Y., New York City
Hungerford Brass & Copper Co., V. T., Lafayette, White and Franklin Sts.
Pa., Wilkes-Barre
Hazard Mfg. Co.

Wire, Cylinder

Conn., Southport
O'Neill Wire Works, Joseph

Wire, Flat

Mass., Worcester
Spencer Wire Co.
N. J., Trenton
Roebling's Son Co., John A.

Wire Fourdrinier

Conn., Southport
O'Neill Wire Works, Joseph
Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Wire, Iron and Steel

Mass., Boston
Ward's Son, Edgar T., 50 Farnsworth St.
Mass., Worcester
Spencer Wire Co.

Wire, Iron and Steel—*cont.*

N. J., Trenton
Roebling's Sons Co., John A.
Ohio, Youngstown
Youngstown Sheet & Tube Co.

Wire, Magnet

Conn., New Haven
Acme Wire Co.

Wire, Nickel

N. Y., New York City
Haring, Ellsworth, 114-118 Liberty St.

Wire, Phos Bronze

Conn., Southport
O'Neill Wire Works, Joseph

Wire, Piano

N. Y., New York City
Montgomery & Co., Inc., 105-107 Fulton St.

Wire, Platinum

N. J., Newark
Baker & Co., Inc., 54 Austin St.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

Wire, Resistance

Mich., Detroit
Hoskins Mfg. Co., 453-471 Lawton Ave.

Wire, Screen

Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Wire, Tool Steel

Pa., Monaca
Pittsburgh Tool Steel Wire Co.

Wire, Weaving

Ohio, Cleveland
Tyler Co., The W. S., Superior Ave. and 36th St.

Wire, Welding

Ill., Chicago
Central Steel & Wire Co., 1119 N. Peoria St.
N. Y., New York City
Swedish Iron & Steel Corp., 12 Platt St.

Wire Machinery, Screw

Mass., Worcester
Sleeper & Hartley, Inc., 68 Prescott St.

Wire Machines, Straightening and Cutting

Mass., Worcester
Sleeper & Hartley, Inc., 68 Prescott St.

Wood Distillation Evaporators

Mass., Boston
Badger & Sons Co., R. E., 63-75 Pitts St.
Lummus Co., The Walter E., 173 Milk St.
N. Y., Buffalo
Zaremba Co., Morgan Bldg.
Scotland, Glasgow
Blair, Campbell & McLean, Ltd., Woodville St., Govan

Wood Preserving Machinery

N. Y., New York City
Worthington Pump & Machinery Corp., 115 Broadway

Wool Fat Plants

Pa., West Chester
Sharples Specialty Co., The

Worms, Acid Proof, Stoneware

Ohio, East Akron
Knight, Maurice A.

X-Ray Apparatus

Ill., Chicago
Thordarson Electric Mfg. Co., 501 S. Jefferson St.
Ind., Hammond
Betz & Co., Frank S.
Mass., Lynn
Campbell Electric Co.
N. Y., New York City
Kny-Scheerer Co., 404 W. 27th St.
N. Y., Schenectady
General Electric Co.
Ohio, Cincinnati
Wocher & Son Co., Max, 19 W. 6th Ave. W.
Pa., Philadelphia
Queen-Gray Co., 618 Chestnut St.

X-Ray Bulbs

N. Y., Corning
Corning Glass Works

X-Ray Developing Tanks

N. Y., New York City
Alberene Stone Co., 223 E. 23d St.
General Ceramics Co., 50 Church St.

X-Ray Shields

N. Y., Corning
Corning Glass Works

X-Ray Tubes

N. J., Millville
International Glass Co.
N. Y., Corning
Corning Glass Works

Xylidene Plants

Mass., Boston
Badger & Sons Co., E. B., 63-75 Pitts St.
Lummus Co., Walter E., 173 Milk St.
Mass., Fall River
Scott & Co., Ernest

Zeiss Ware

N. Y., New York City
*Eimer & Amend, 205-211 3d Ave.
Pa., Philadelphia
*Thomas Co., Arthur H., W. Washington Sq.

IV. MANUFACTURERS AND DEALERS OF EQUIPMENT

Ala., Anniston
Kilby Car & Foundry Co.
Ala., Birmingham
Ajax Metal Co.
Birmingham Boiler Works
Continental Gin Co.
Graves Shale Paving Brick Co.
Jefferson Powder Co.
Ark., Eldorado
Eldorado Blow Pipe Co.
Cal., Berkeley
*University Apparatus Co., 2229 McGee Ave.
Cal., Fresno
Gearhart Oil Burner Co., 1314 Eye St.
Cal., Los Angeles
Acme Brass Foundry Co., 860 N. Main St.
Baker Iron Works, 950 N. Broadway
Braun Corporation, The, 363 New High St.
Calkins Co., 348 N. Main St.
Densmore-Stabler Refining Co., 2474 E. 9th St.
Hoegee Co., Inc., W. H., 138 S. Main St.
Lane Mill & Machinery Co., 106 W. 3d St.
Llewellyn Iron Works, N. Main and Redondo
National Percolators Co., 124 W. 9th St.
Pacific Tank & Pipe Co., 318 Market St.
Sirch, C. W., 126 W. 3d St.
Southern Refining Co., 129 W. 2d St.
Sunset Oil Refining Co., 307 W. 1st St.
Union Oil Co. of Cal., 215 W. 7th St
U. S. Flexible Metallic Tubing Co., 430 Boyd St.
Wood Mfg. Co., 1832 E. 16th St.
Cal., Emeryville, Oakland
Marchant Calculating Machine Co.
Cal., Oakland
Oakland Blue Print Co.
Commercial Building
Senn Concentrator Co.
Union Iron Works
United Iron Works
Cal., San Francisco
Associate Oil Co., Sharon Bldg.
Braun-Knecht-Heimann Co., 584 Mission St.
Claire, Justenian Co., 575 Market St.
Cook Belting Co., H. N., 401 Howard St.
Gladding, McBean & Co., 148 Natoma St.
Hendy Iron Works, Joshua, 75 Fremont St.
Illinois-Pacific Glass Co., 15th and Folson Ave.
Johnson Co., S. T., 1337 Mission St.
Lietz Co., A., 632 Commercial St.
Merrill Metallurgical Co., 121 2d St.
Oliver Continuous Filter Co., 505 Market St.
Pacific Tank & Pipe Co., 5th & Bryant Sts.
Price Pump & Engine Co., G. W., 33 Stevenson St.
Redwood Mfgs. Co., Hobart Bldg.
Rees Blow Pipe Co., 340 7th St.
Selby Smelting & Lead Co., Merchants Exchange Bldg.
Senn Concentrator Co., 607 First National Bank Bldg.
Smith, C. W., 16 Washington St.
Union Iron Works Co., 214 Spear St.
Western Pipe & Steel Co. of Cal., 444 Market St.
Cal., Sacramento
Sacramento Burner & Oil Co.
Cal., Torrance
Pacific Metal Products Co.
Canada, Coblat, Ontario
Groch Centrifugal Flotation, Ltd.
Canada, Montreal
Canadian Consolidated Rubber Co., Ltd., 201 Inspector St.
Colo., Denver
Ainsworth & Sons, Wm., 2151 Lawrence St.
American Coal Reduction & By-Products Co.
Colorado Iron Works Co., 33d and Wynkoop Sts.
Denver Balance & Scale Co., 3000 Larimer St.
Denver Fire Clay Co., 1742 Champa St.
Denver Iron Works Co., 30th and Blake Sts.
Dorr Co., Cooper Bldg.
Hendrie & Bolthoff Mfg. & Supply Co.
Morse Bros. Machinery & Supply Co., 1732 Wazee St.
Pierce, Lucius S., 1738 Broadway

Shaw Pneumatic Tool Co., C. H., 35th and Wazee Sts.
Stearns-Roger Mfg. Co., 1718-20 California St.
Thompson Balance Co., 808 20th St.
Colo., Golden
Herold China & Pottery Co.
Conn., Ansonia
Ansonia Mfg. Co., River Road
Farrell Foundry & Machine Co.
Conn., Branford
Malleable Iron Fittings Co.
Conn., Bridgeport
American Tube & Stamping Co.
Ames Machine Co., Max.
Bridgeport Brass Co.
Bridgeport Crucible Co.
Bridgeport Safety Emery Wheel Co., Inc.
Bridgeport Steel Treating Co.
Bullard Machine Tool Co.
Canfield Rubber Co.
Connecticut Metal Treating, 207 Knowlton Ave.
Delcampe Welding Co.
Diamond State Fibre Co.
McNab Company
Palmer & Co., N.
Rust Resisting Black Finish Co.
Springfield Mfg. Co.
Standard Mfg. Co.
Conn., Bristol
Barnes, Wallace Co., 118 Wallace Ave
Dunbar Bros. Co., 76 South St.
New Departure Mfg. Co.
Root Co., C. J., 150 Bridge St.
Conn., Chester
Bates & Sons Co., C. J.
Conn., Collinsville
Collins Company
Conn., Danbury
Ball & Roller Bearing Co., Maple Ave.
Conn., Deep River
Rogers Brush Works
Conn., Derby
Birmingham Iron Foundry
Dairy Machinery & Construction Co.
Conn., East Hampton
Hill Brass Co., N. N.
Conn., East River
Weld, Geo. M.
Conn., Georgetown
Gilbert & Bennett
Conn., Hartford
Abbott Ball Co.
Automatic Refrigerating Co.
Baker Electric Co.
Conn., Groton
New London Ship & Engine Co.
Hartford Covering Co., 1234 Main St.
Jewell Belting Co.
Johns-Pratt Co., 555 Capitol St.
Ney & Co., J. M.
Organ Power Co.
Pratt & Cady Co., Inc.
Roto Company
Sterling Blower Co.
Terry Steam Turbine Company, The
Veeder Mfg. Co.
Conn., Meriden
Bradley & Hubbard Mfg. Co
International Silver Co.
Miller & Co., Edward
Parker, Chas. C.
Conn., Middletown
New England Enameling Co.
Palmer Co., E. I.
Wilcox Crittenden Co., Inc.
Conn., Montville
Robertson Co., C. M.
Conn., New Britain
Hart & Cooley Co.
Landers, Frary & Clark
North & Judd Mfg. Co.
Stanley Rule & Level Co.
Conn., New Haven
Acme Wire Co.
Bauman Rubber Co.
Best Mfg. Co.
Bigelow Co., 76 River St.
Coe & Brown
Eastern Machinery Co.
Marlin Arms Corp.
Griswold Machine Co., Geo. M.
National Pipe Bending Co., The, River and Lloyd Sts.
Oven Equipment & Mfg. Co.
Oxy-Carbi Co.
Peck Bros. & Co., The
Conn., New London
New England Collapsible Tube Co.
Whiton Machine Co., D. E.
Conn., Norwich
Norwich Belt Mfg. Co.
Thames Cork Co.
Conn., Seymour
Seymour Mfg. Co.
Conn., Shelton
Clark Cast Steel Cement Co.
Conn., South Norwalk
Nash Engineering Co.
Conn., Southport
O'Neill Wire Works, Joseph
Conn., Stamford
Celluloid Zapon Co.
Stamford Gas Stove Co.
Conn., Tolland
Sumner Belting Co., William
Conn., Torrington
Turner & Seymour Mfg. Co.
Conn., Wallingford
Wallace & Sons Mfg. Co., R.
Conn., Waterbury
American Brass Co., The
American Metal Hose Co.
Apothecaries Hall Co.

Bristol Co.
Chase Rolling Mill Co.
Kenworthy, Chas. F.
Novelty Mfg. Co.
Randolph-Clowes Co., The
Scoville Mfg. Co.
Waterbury Brass Goods Corp.
Waterbury Clock Co.
Waterbury Mfg. Co.

Conn., Windsor Locks
Anchor Paper Co., Inc.

Conn., Westport
Dolge Co., C. B.

Del., Newark
Continental Fibre Co.

Del., South Wilmington
Hilles & Jones Co.

Del., Wilmington
American Vulcanized Fibre Co., Equitable Bldg.
Atlas Powder Co.
Betts Machine Co.
Delaware Hard Fibre Co.
Du Pont De Nemours and Co., E. I.
Du Pont Fabrikoid Co.
Electric Hose & Rubber Co.
Harlan & Hollingsworth Corp.
Hercules Powder Co.
Jessup & Moore Paper Co.
Pusey & Jones Co.
Remington Machine Company
Slocomb & Co., Inc., F. F.
Walker & Elliott, Inc.

England Birmingham
Belchers (Standley) & Mason, Ltd., Church St.

England, Deepfields, nr. Bilston Staffs
Cannon Iron Foundries, Ltd.

England, Stanningley, near Leeds
Leeds & Bradford Boiler Co., Ltd., The

England, Widnes
Widnes Foundry Co., Ltd., The

Ga., Atlanta
Atlanta Utility Works
Austin Co., W. E.
Hood, B., Mifflin Brick Co.
Mutual Foundry & Machine Co.
Pratt Engineering & Machine Co.

Ga., Columbus
Columbus Iron Works Co.

Ga., La Grange
Unity Cotton Mills

Ga., Macon
Bibb Mfg. Co.

Ga., Newman
Cole Mfg. Co., R. D.

Ga., Rome
Davis Foundry & Machine Works
Rome Scale & Mfg. Co.

Ga., Savannah
Crescent City Blow Pipe Co.
Savannah Blow Pipe & Exhaust Co.

Ill., Alton
Illinois Bottle Company
Illinois Glass Co.
Illinois Stoker Co.

Ill., Aurora
Allsteel Equipment Co.
Lyon Metallic Mfg. Co.
Stephens-Adamson Mfg. Co.
Western Wheeler Scraper Co.

Ill., Batavia
Challenge Co.
Sperry & Co., D. R.
U. S. Wind Eng. & Pump Co.

Ill., Bradley
Bradley Machine Works

Ill., Calumet
Calumet Steel Co.

Ill., Chicago
Accurate Engineering Co.
Acme Water Still Co.
Adams & Westlake Co., Ontario and Franklin Sts.
Aetna Powder Co., 7 S. Dearborn St.
Albaugh-Dover Co., 2106 Marshall Blvd.
Allbright-Nell Co., 4023 Westworth St.
American Arch Co., McCormick Bldg.
American Conveyor Co., 6611 Drexel Ave.
American Cutlery Co., 193 Mather St.
American Indicator Paper Co., 2547 Eastwood Ave.
American Magnesia Products Co., 600 W. Austin Ave.
American Seating Co., 14 E. Jackson St.
American Spiral Pipe Works, 14th St. and S. Cicero Ave.
American Tag Co., State and 61st St.
American Wire Fabrics Co.
Andresen-Evans Co., 646 Railway Exchange Bldg.
Andrews Co., A. H., 117 S. Wabash Ave.
Austin Mfg. Co., 910 S. Michigan Ave.
Automatic File Co., 14 E. Jackson Blvd.
Badt & Co., F. B., 6506 Lafayette Ave.
Benjamin Electric Mfg. Co., 120 S. Sangamon St.
Bennett O'Connell Co., 3600 S. Morgan St.
Bieder Co., 334 S. Clinton St.
Bleadon Dunn Co., 208 N. 5th Ave.
Block Chemical Laboratories, 208 S. La Salle St.
Booth Felt Co., Inc., 116 S. 5th Ave.
Bordette Mfg. Co.
Brown Portable Elevator Co.
Burdett Mfg. Co., St. Johns Ct. and Fulton St.
Burke & James, Inc., 240 E. Ontario St.

Caldwell & Son Co., H. W., 17th St. and Western Ave.
Carpenter & Co., Geo. B., 436 Wells St.
Cassady-Fairbanks Mfg. Co., 6126 La Salle Ave.
Central Locomotive & Car Works, 345 S. Dearborn St.
Central Scientific Co., 460 E. Ohio St.
Central Steel & Wire Co., 1119 N. Peoria St.
Channon Co., H., Market and Randolph St.
Chicago Belting Co., 113-125 Green St.
Chicago Bridge & Iron Works, 37 W. Van Buren St.
Chicago Eye Shield Co., 2300 Warren Ave.
Chicago Flexible Shaft Co., 608 N. La Salle Ave.
Chicago Glass Products Co., 2300 Warren Ave.
Chicago Pneumatic Tool Co., 343 S. Dearborn Co.
Chicago Pump Co., 904-10 W. Lake St.
Chicago Steel Car Co., 156th and Halstead Aves.
Chicago Surgical & Electrical Co., 314 W. Superior St.
Chicago Tubing & Braiding Co., 216 N. Clinton St.
Chicago Wheel & Mfg. Co., 1101-1103 W. Monroe St.
Chicago Wire Chair Co., 618 N. La Salle St.
Clark Dust Collecting Co., 1116 Fisher Bldg.
Combustion Appliance Co., 1778 Estes Ave.
Commercial Corundum & Emery Wheel Co., 920-22 W. Ohio St.
Crane Company, 839 S. Michigan Ave.
Creamery Package Mfg. Co., 61 W. Kinzie St.
Cyclone Blow Pipe Co., 2552 W. 31st St.
Cyclone Blow Pipe Co., 1001 W. 21st St.
Daigger & Co., A., 52-56 W. Kinzie St.
Dietzgen Co., Eugene, 166 W. Monroe St.
Driesen Co., W. E., 186 S. La Salle Ave.
Dull Co., Raymond W., 111 W. Washington St.
Durand Steel Locker Co., 76 W. Monroe St.
Dwight Mfg. Co., 12-14 Jefferson St.
Eagle-Picher Lead Co., 208 S. La Salle St.
Eagle Tank Co., 2426 N. Crawford Co.
Economy Engineering Co., 415 S. Wasthenaw Ave.
Economy Pumping Machinery Co., 116-118 N. Carpenter St.
Electric Magneto Tool Co., 2902 Canoll Ave.
Ellison, Lewis M., 214 W. Kinzie St.
Elmes Engineering Works, Chas. F., 215 N. Morgan St.
Fairbanks, Morse & Co., 902 S. Wabash Ave.
Featheredge Rubber Co.
Federal Brass Works, 3100 S. Kinzie St.
Federal Sign System, Lake and Desplaines Ave.
Flexible Steel Lacing Co., 522 S. Clinton St.
Foundation Co., Rookery Bldg.
Gaertner & Co., Wm., 5345 Lake Park Ave.
Garden City Fan Co., McCormick Bldg.
Gerts, Lombard & Co., 221 W. Randolph St.
Goodman Mfg. Co., Halstead St. and 48th Pl.
Great Western Smelting & Refining Co.
Griffin Wheel Co., 332 S. Michigan Ave.
Guillot Metal Gasket & Supply Co., 24 S. Clinton St.
Guertnor Co., Wm.
Halsted Co., Jos., 1233 W. Randolph St.
Harvard Electric Co., 525 W. Van Buren St.
Hooker Co., H. M., 651 Washington Place
Humboldt Mfg. Co., 2014 Nebraska Ave.
Illinois Electric Ventilating Co., 131 Whiting St.
Illinois Engineering Co., Racine Ave. and 21st St.
Illinois Malleable Iron Co., 1801 Diversey Blvd.
Illinois Smelting & Refining Co., 410 N. Peoria St.
Illinois Steel Co., 208 S. La Salle St.
Imperial Brass Mfg. Co., 524 S. Racine Ave.
Independent Pneumatic Tool Co., 1307 Michigan Ave.
Inland Steel Co., 1st Nat'l. Bank Bldg.
International Filter Co., 1702 S. Wabash Ave.
International Harvester Co., 608 S. Michigan Ave.
Invincible Blow Pipe Co., 2527 Homer St.
Johnson Engineering Works, 1734 First Nat'l. Bank Bldg.

Jones Foundry & Machine Co., W. A., 4404 W. 12th St.
Justrite Mfg. Co., 2061 Southport Ave.
Kaestner & Hecht Co., Inc., Harrison and Throop St.
Kelso & Co., 557 W. Quincy St.
Kimble-Durand Glass Co., 402 W. Randolph St.
Knickerbocker Bath Spray Co.
Kreutzberg Meter Co., 9 S. Clinton St.
*Laboratory Materials Co., 7404 S. Calumet Ave.
Lammert & Mann Company, Wood and Walnut Sts.
Lehon Co., W., 45th & Oakley Ave.
Life Savings Devices Co., 564 W. Monroe St.
Link-Belt Co., W., W. 39th St. and Stewart Ave.
Liquid Carbonic Co., 31st St. & Kenzie Ave.
Magnus Sons Co., A., 327 W. Randolph St.
Maloney Belting Co., 130 N. Franklin St.
McCauley Belting Co., 212-220 Orleans St.
McDonnell Odometer Co., 35th St. and Kenzie Ave.
McGuire-Cummings Mfg. Co., 111 W. Monroe St.
Mechanical Rubber Co., 307 W. Randolph St.
Metal Specialties Mfg. Co., 736 W. Monroe St.
Meyer Co., Wm., 825 W. Washington St.
Mohr & Son, John, 349-359 W. Illinois St.
Mojonnier Bros. Co., 833 W. Jackson Blvd.
Moore & Lorenz Co., 2144-52 Fulton St.
Morgan-Gardner Electric Co., 2622 S. Nields Ave.
Mott Sand Blast Co., 26 S. Clinton St.
Murphy Metals Co., 1248 Webster Bldg.
National Boiler Washing Co., 531 Railway Exchange Bldg.
National Dump Cart Co., 80 E. Jackson Blvd.
National Electric Controller Co., 154 Whiting St.
National Hose Coupling Co., People's Gas Bldg.
National Regulator Co., 208 S. Jefferson St.
National Rheostat, The, 154 Whiting St.
National Supply Co., 416 W. Grand Ave.
National X-Ray Reflector Co., Jackson Blvd. and Franklin St.
Nugent & Co., Wm. W., 146-148 W. Superior St.
Orton-Steinbrenner Co., 608 S. Dearborn St.
Olmstead, W. A. Scientific Co.
Overbaugh & Ayres Mfg. Co., 411 S. Clinton St.
Oxwold Acetylene Co., 36th and Jasper St.
Pease Co., C. F., 213-231 Institute Pl.
Perrin & Co., Wm. R., Old Colony Bldg.
Peterson & Co., Leonard, 1240 Fullerton Ave.
Phoenix-Hermetie Co., 2444 W. 16th St.
Pliable Fire Brick Co., 133 W. Washington St.
Power Engineering Co., Railway Exchange
Power Plant & Specialty Co., 1306 Monadnock Bldg.
Powers Regulator Co., 5 S. Wabash Ave.
Preble Machine Works, 106th and Indiana Blvd.
Pullman Co., Pullman Bldg.
Raymond Bros. Impact Pulverizer Co., 1327 N. Branch St.
Raymond Lead Co., 735 S. Wastenaw Ave.
Redfield, Robert S., 327 S. La Salle St.
Redlich Mfg. Co., 637 W. Oak St.
Redmanol Chemical Products, 636 W. 22d St.
Republic Flow Meters Co., 565 Washington Blvd.
Rhodes & Co., James H., 157 W. Kinzie St.
Revell & Co., A. H., Wabash Ave.
Ryerson & Son, Joseph T.
Sackett Screen & Chute Co., 1681 Elston Ave.
Salisbury & Co., W. H., 105-07 S. Wabash Ave.
Sanford Mfg. Co.
*Sargent & Co., E. H., 125 W. Lake St.
Sargeant Steam Meter Co., 2835 Armitage Ave.
Schaar & Co., 1025 S. State St.
Scheidel-Western X-Ray Coil Co., 737 W. Van Buren St.
Schuler Co., J. F., 2428 N. Ashland Ave.
Schultz & Son, A. L., 1675 Elston Ave.
Scully Steel & Iron Co., 24th and Ashland Ave.
Self Cleaning Strainer Co., 6329 Stewart Ave.
Simonds & Co., G. L., 230 S. La Salle St.
Sitta Hygienic Window Co., 2542 N. Halsted Co.

Skillin & Richards Mfg. Co., 4520 Cortland St.
Standard Asphalt & Rubber Co., 137 La Salle Ave., S.
Standard Diamond Drill Co., First Nat'l. Bank Bldg.
Star Brass Works, The, 3114-22 Carroll Ave.
Stewart Warner Speedometer Co., 1822 Diversey Blvd.
*Stoelting Co., C. H., 3037 Carroll Ave.
Streeter-Amet Weighting & Recording Co., 4101 Ravenswood Ave.
Stroud & Co., E. H., 928-34 Fullerton Ave.
Sturgis & Burn Mfg. Co., 508 S. Green St.
Sullivan Machinery Co., 122 S. Michigan Ave.
Swenson Evaporator Co., 945 Monadnock Bldg.
Tablet & Ticket Co., 628 W. Adams St.
Thordarson Electric Co., 501 S. Jefferson St.
Unger, John S., 3344 Broadway
U. S. Bottlers Machinery Co., 2511 Park Ave.
U. S. Blow Pipe & Dust Collecting Co., 2090 Canalport Ave.
U. S. Gypsum Co., 205 W. Monroe St.
U. S. Rocking Grate Bar Co., 20 W. Jackson St.
U. S. Silica Co., 419 People's Gas Bldg.
Universal Engineering Co., 700 W. 22d St.
Valhalla Co., Valhalla Bldg.
Victor Electric Corporation, 236 S. Robey St.
Vortex Blow Pipe Co., 151 W. 63d St.
Vulcan Fuel Economy Co., 230 S. La Salle St.
Wagner, Carl H., 1944 N. Albany Ave.
Webber Chimney Co., 332 S. Michigan Ave.
Weller Mfg. Co., 1820 N. Kostner Ave.
Western Steel Car & Foundry Co., 37 W. Van Buren St.
Wednagel & Co., W., 22d and Jefferson Ave., S.
Welch Mfg. Co., W. M., 1516 Orleans St.
Weller Mfg. Co., 1820-1856 Kostner Ave.
Wendnagel & Co., 22d and Jefferson St.
Western Bottle Mfg. Co., 402 W. Randolph St.
Western Electric Co., 500 S. Clinton Ave.
Western Reflector Co., 1015 W. Lake Ave.
Williams Patent Crusher & Pulverizer Co., Old Colony Bldg.
Wilson & Bennett Mfg. Co., 65th Pl. and 58th Ave.
Wilson & Co., T. Cortez, 333 W. Lake St.
Wolf Company, Fred W., 827 Rees St.
Yeomans Bros. Co., 231 Institute Pl.

Ill., Chicago Heights
Canedy-Otto Mfg. Co.
Chalmers & Williams, Inc.
Thermalene Co., 17th St. & Lowe Ave.
Weber Heights
Weber-Costello Co., Weber Heights

Ill., Danville
Headley Glass Works

Ill., Decatur
Mueller Mfg. Co., H.
Union Iron Works

Ill., Du Quoin
Blakeslee Mfg. Co.

Ill., East Moline
Standard Calorimeter Co.

Ill., East St. Louis
American Carbon & Battery Co.

Ill., Elgin
National Boiler Specialties Co.

Ill., Galesburg
Frost Mfg. Company
Metal Barrel Co.

Ill., Harvey
Whiting Foundry Equipment Co.

Ill., Joliet
Humphrey & Son

Ill., Kewanee
Kewanee Boiler Company

Ill., Moline
Barnard & Seas Mfg. Co.
Williams, White & Co.

Ill., Monmouth
Western Stoneware Co.

Ill., North Chicago
Davis-Watkins Milk Machinery Co.

Ill., Peoria
Stuber & Kuck

Ill., Quincy
Cabinet Mfg. Co., 323-25 Main St.
Gardner Governor Co.
Knittell Show Case Co., J.

Ill., Rockford
Eclipse Fuel Engineering Co.
Ingersoll Milling Machine Co.
Rockford Belting Co.

Ill., Rock Island
Rock Island Plow Co.
Trio Mfg. Co.

Ill., Springfield
Springfield Boiler & Mfg. Co.

Ill., Streator
Western Glass Co.

Ill., Sycamore
Turner Brass Works

Ill., White Hall
Ruckel & Son, A. D.
Ind., Alexandria
Lippincott Glass Co.
Ind., Anderson
Anderson Foundry & Machine Works
Buckeye Mfg. Co.
Dice Machine Co.
Ind., Aurora
Stedmans Foundry & Machine Works
Ind., Brazil
Crawford & McCrimmon Co.
Ind., Columbus
Mooney & Sons, W. W.
Ind., Connersville
Connersville Blower Co.
Roots Co., P. H. & F. M.
Ind., East Chicago
Graver Tank Works, Wm.
Green Engineering Co.
Ind., Elkhart
Griffin Engineering & Construction Co.
Ind., Ft. Wayne
Bass Foundry & Machinery Co.
Bowser & Co., S. F.
Good Roads Machinery Co.
Wayne Oil Tank & Pump Co.
Western Gas Construction Co.
Ind., Goshen
I. X. L. Furniture Co.
Ind., Hammond
Betz & Co., Frank S.
McIlroy Belting & Hose Co.
Ind., Indianapolis
American Highspeed Chain Co., 401 S. Illinois Ave.
Castle Refrigerating Machine Co.
Climax Machinery Co., 143 E. Morris St.
Clune Co., M.
Fairmount Glass Works
Galloway Co., Wm.
Hunter Dry Kiln Co., The, 26th and Cornell Ave.
Indiana Fan Co., 40 E. South St.
Keyless Lock Co., 1401 Newman St.
Lilly, Eli & Co.
Lyons Atlas Co.
Marietta Glass Co.
Marietta Mfg. Co.
Nordyke & Marmon Co., 1290 Kentucky Ave.
Presto-O-Lite Co., Inc.
Schwartz Sectional System, 312-316 S. New Jersey St.
Ind., Jonesboro
Indiana Rubber & Insulated Wire Co.
Ind., Kendallsville
Baker & Sons, J. R.
Ind., Kokomo
Kokomo Foundry & Machine Co.
Ind., La Porte
Advance-Rumeley Co.
Ind., Marion
Marion Machine Foundry & Supply Co.
Ind., Michigan City
Haskell & Barker Car Co.
Ind., Mishawaka
Dodge Sales & Engineering Co.
Ind., Muncie
Endurance Autoil Co.
Ind., South Bend
Campbell Wire Specialty Works
Cover, H. S., P. O. Box 404
South Bend Chilled Plow Works
Studebaker Corp.
Ind., Terre Haute
O'Neill Bottle Machine Co.
Turner Bros. Co.
Ia., Bettendorf
Bettendorf Co.
Ia., Burlington
Murray Iron Works Co.
Ia., Cedar Rapids
Cherry Co., J. G.
Johnson Gas Appliance Co.
Ia., Davenport
Grupe Drier & Boiler Co., 325-331 E. 2d St.
Scott, C. U., Wall St.
Ia., Decorah
Standard Seed Tester Co.
Ia., Des Moines
Dodd & Struthers
Ia., Dubuque
McDonald Mfg. Co., A. Y.
Morrison Bros.
Ia., Iowa Falls
Gade Bros. Mfg. Co.
Ia., Marshalltown
Fisher Governor Co.
Dunham Company, C. A.
Ia., Ottumwa
Ottumwa Iron Works
Ottumwa-Moline Engine & Pump Co., 802-22 Madison Ave.
Ia., Waterloo
Waterloo Gasoline Engine Co.
Kan., Iola
United Iron Works Co.
Kan., Topeka
Steel Fixture Mfg. Co.
Ky., Ashland
Ashland Fire Brick Co.
Ky., Louisville
Ahrens & Ott Mfg. Co., 325 W. Main St.
Caldwell Co., W. E., Brook and D Sts.
Cowan & Co., Andrew, 435 W. Main St.
Ky., Covington
Kelly-Koett Mfg. Co., The
American Elevator & Machine Co.
Clark Electric Co., Jas. Jr.
Louisville Pottery Co.
Floyd Pottery Co.

National Foundry & Machine Co.
Vogt Machine Co., Henry
Wenster Loose Leaf Filing Co.
Ky., Paducah
Paducah Pottery Co.
La., New Orleans
American Blow Pipe & Ventilating Co., 438 Girod Ave.
Haubtman & Loeb Co., 1717 Magazine St.
Joubert & Goslin Machine & Foundry Co.
Lockett & Co., Ltd., A. M.
Mente & Co.
Murphy, Jno. H., 643 Magazine St.
Murphy Iron Works, 643 Magazine St.
National Blow Pipe & Mfg. Co., Ltd.
New Orleans Copper Works
Payne & Joubert, 2304 Euphrosine St.
La., Shreveport
Shreveport Blow Pipe & Sheet Iron Works
La., Shreveport
Whittle Blow Pipe Co.
Me., Auburn
Ideal Desk Co.
Me., Bangor
Eastern Mfg. Co.
Orono Pulp & Paper Co.
Union Iron Works
Me., Bath
Bath Iron Works, Ltd.
Me., Portland
Burgess Sulphite Fibre Co., 440 Commercial St.
Electron Chemical Co., 534 Congress St.
Md., Baltimore
American Compressor & Pump Co., 801-805 E. Pratt St.
Baker Bros. & Co., 118 South St.
Baltimore Cooperage Co., The, 1223 Leadenhall St.
Baltimore Copper Smelting & Rolling Co., 4th Ave. and 6th St.
Baltimore Electric Blue Print Co., 10 E. Lexington St.
Baltimore Tube Co., Wicomico and Ostend Sts.
Bartlett-Hayward Co., Scott and McHenry Sts.
Bates Elevator Co., 211 Preston St.
Black & Decker Mfg. Co., 105-15 S. Calvert St.
Bloede Co., Victor G., Caton Ave.
Bloomsburg & Co., H., 425 N. Carey St.
Caroline Foundry Co., 723 S. Caroline St.
Carr-Lowery Glass Co., Westport
Chesapeake Belting Co., 813 Homewood Ave.
Chesapeake Glass Co., 424 W. Conway St.
Codd Company, E. J., 700-708 S. Caroline St.
Crown Cork & Seal Co., Guilford Ave.
Dixie Mfg. Co., Inc., Russell St. and B. & O. R. R.
Druid Oak Belting Co., 111 E. Lombard St.
Gandy Belting Co., 726 W. Pratt St.
Hess Steel Corp., Biddle St. and Loney's Lane
Hull Mfg. Co., J. S., 126 E. Falls Ave.
Maryland Brass Metal Works, Guilford and Girard Aves.
Meade & Co., Richard K., 608-612 Law Bldg.
Milburn Co., Alex., 1420-26 W. Baltimore St.
Miller Safe Co., Fremont Ave. and Briscoe St.
Monarch Engineering & Mfg. Co., American Bldg.
Mt. Vernon Belting Co., 327 Warren Ave.
Mt. Vernon-Woodberry Mills, Inc., Continental Bldg.
Poole Engineering & Machine Co., Woodberry
Porcelain Enamel & Mfg. Co., O'Donnell and 8th Sts.
Sackett, A. J., 4th Ave. and First Sts.
Simplex Bottle Filling Machine Co.
Southern Can Company, 717 S. Wolfe St.
Swindell Bros., Bayard and Russell Sts.
Thirlkel Can Co., 1109 E. Pratt St.
Md., Cumberland
Cumberland Glass Tube Co.
Md., Hagerstown
Mack Brush Co., E.
Pangborn Corp.
Mass., Adams
Allen Iron Works
Mass., Andover
Tyer Rubber Co.
Mass., Ashburnham
Almong Mfg. Co., T. R.
Mass., Ashland
Lombard Governor Co.
Mass., Athol
Starrett Co., L. S.
Union Twist Drill Co.
Mass., Boston
Adams Co., J. J., 700 Harrison Ave.
Allen Co., E. H., 41 Beverly St.
American Felt Co., 103 Bedford St.
American Glue Co., 121 Beverly St.
American Incandescent Heat Co., Inc., 10 Post Office Square
American Steam Gauge & Valve Mfg. Co., 208 Camden St.

American Tool & Machine Co., 10 High St.
American Water Supply Co., 251 Causeway St.
Ames Plow Co., Quincy Hall
Anderson Mfg. Co., Albert & J. M., 289 A St.
Ashton Valve Co., 271 Franklin St.
Badger & Sons Co., E. B., 63-75 Pitts St.
Bailey Meter Co., 141 Milk St.
Barney Ventilatine Fan Works
Barney Ventilatine Fan Works, 62 High St.
Bay State Belting Co., 605 Atlantic Ave.
Becker Milling Machine Co., Hyde Park
Berry, Geo. F., 152 Purchase St.
Boston Belting Co., 84 Linden Park St.
Boston Mirror Co., 67 Sudbury St.
Boston Steam Specialty Co., 185 Franklin St.
Boston Woven Hose & Rubber Co., 107 Summer St.
Bradley Pulverizer Co., 92 State St.
Cabot, Inc., Samuel, 141 Milk St.
Callahan Co., C., 127 Purchase St.
Carter's Ink Co.,239 First Ave.
Claflin Co., C. A., 161 High St.
Clark Co., A. B., 107 South St.
Codman & Shurtleff, 15 Elkins St.
Crosby Steam Gauge & Valve Co., 40 Central St.
Downing Grease Co., 16 Waltham St.
Eastern Clay Goods Co., 141 Milk St.
Julian d'Este Co., 26 Canal St.
Electric Blower Co., 352 Atlantic Ave.
Emerson Apparatus Co., 251 Causeway St.
Felters Co., 103 Bedford St.
Fibre Finishing Co., 27 State St.
Flintkote Mfg. Co., 88 Pearl St.
General Welding & Equipment Co., 107 Massachusetts Ave.
Gleeson, Thomas W., 106 Sudbury St.
Globe Optical Co., 403 Washington Ave.
Globe Rubber Works, 45 High St.
Gurney Heater Mfg. Co., 200 Franklin St.
Hawthorne Pharmacy, Dudley and Washington Sts.
Henderson, Geo., 9 Preston St.
Holmes & Blanchard Co., 31 State St.
Huff Electrostatic Separator Co., 60 India St.
International Equipment Co., 353 Western Ave.
Interstate Cotton Mills Corp.
Jacobs & Co., 258 Franklin St.
*Knott Apparatus Co., L. E., Cambridge Station
Knowlton Rubber Co., Geo. W., 60 Pearl St.
Lamson Co., 100 Bolston St.
Leigh & Butler, 232 Summer St.
Library Bureau, 530 Atlantic Ave.
Little Co., Inc., Arthur D., 93 Broad St.
Lloys Co., A. J., 315 Washington St.
Lummus Company, Walter E., 173 Milk St.
Macalaster-Wiggin Co., 79 Sudbury Ave.
Mason Regulator Co., 127 Federal St.
McCallan Co., 11 McCallen St.
McGann & Sons Co., T. F., 114 Portland St.
McLauthlin Co., Geo. T., 120 Fulton St.
McNamara, M., 171 Broadway
Meisel Press Mfg. Co., 950 Dorchester Ave.
Morse & Son, Inc., Andrew J., 221 High St.
National Can Co., 36 Washington St., N.
National Separator & Machine Co., 89 State St.
Nelson Blower & Furnace Co., 11 Elkins St.
New Can Co., 326 A St.
New England Chocolate Machinery Co.
Nightingale & Childs Co., 205 Congress St.
Orient Spray Co., 98 Dudley St.
Paul Mfg. Co., 14 Blackstone St.
Plouff Company, 1558 River St., Hyde Park
Randall, Faichney & Co.
Revere Rubber Co.
Rihac Disinfectant Co., 11 Hawkins St.
Riley Co., C. E., 65 Franklin St.
Rowe, L. L., 74 Portland St.
Shackley & Son Co., W. T., 49 High St.
Speares, Alden Sons Co.
Spray Engineering Co., 93 Federal St.
Standard Thermometer Co., 65 Shirley St.
Star Brass Mfg. Co., 103 E. Dedham St.
Strater & Sons, Herman, 74 Sudbury Ave.
Sturtevant Co., B. F., Hyde Park
Sturtevant Mill Co., Harrison Square
Tileston & Hollingsworth Co., 49 Federal St.
Van Noorden & Co., E., 100 Magazine St.
Wadsworth, Howland & Co., 84 Washington St.
Walworth Mfg. Co., 142 High St.

Ward's Sons, Edgar T., 23 Purchase St.
Warren Brothers Company, 142 Berkley St.
Waterhouse Welding Co.
John L. Whiting—J. J. Adams Co., 690 Harrison Ave.
White & Co., C. W., 99 Court St.
White & Son, W. B., 71 Summer St.
Wheeler Reflector Co., 156 Pearl St.

Mass., Brighton
*International Equipment Co., 352 Western Ave.

Mass., Brookline
Ritchie & Sons, Edward S.
Holtzer-Cabot Electric Co.

Mass., Cambridge
Ashland Emery & Corundum Co.
Exlon Co., The, 156 6th St.
*International Instrument Co.
McElroy Co., P. J.
Riverside Boiler Works, Inc., 491 Main St.
Simplex Tester Co., Harvard Square
Standard Dairy Co.

Mass., Chelsea
Revere Rubber Co.

Mass., Clinton
Clinton Wire Cloth Co.

Mass., Chicopee Falls
National Scale Co.

Mass., East Boston
Mead-Morrison Co.

Mass., East Walpole
Bird & Son

Mass., Fall River
Scott & Co., Ernest, Box 259
Union Belt Co.

Mass., Fitchburg
Brown Bag Filling Machine Co.
Parks Co., G. M.

Mass., Florence
Norwood Engineering Co.

Mass., Foxboro
Foxboro Co., Inc.

Mass., Framingham
Dennison Mfg. Co.
Manufacturing Equipment & Engraving Co.
Mason & Co., Marcus

Mass., Gloucester
Perkins Box Co.

Mass., Greenfield
Noyes & Co., B. B.

Mass., Holyoke
Holyoke Belting Co.
Holyoke Machine Co.
Perkins & Son, Inc., B. F.

Mass., Hopedale
Draper & Co.

Mass., Hudson
Universal Boring Machine Co., 30 Tower St.

Mass., Lawrence
Norne & Sons Co., J. H.

Mass., Lee
Eaton-Dikeman Co.

Mass., Lowell
Turner Mfg. Co., J. S.
Whiting, Henry F., Shattuck St.

Mass., Lynn
Campbell Electric Co.

Mass., New Bedford
Morse Twist Drill & Machine Co.

Mass., Northampton
Clement Mfg. Co.

Mass., Orange
Chase Turbine Mfg. Co.
Hunt Machine Co., R.
Newt, Rodvey Machine Co.

Mass., Peabody
Turner Tanning Machinery Co.

Mass., Pittsfield
Jones & Sons Co., E. D., 25 Depot St.

Mass., Shelburne Falls
Lamson & Goodnow Mfg. Co.

Mass., Sommerville
Union Glass Co.

Mass., South Boston
Condit Electrical Mfg. Co.
Hersey Mfg. Co.

Mass., Southbridge
American Optical Co.

Mass., Springfield
Gilber & Barker Mfg. Co.
Quigley Furnace & Foundry Co.
Witherbee Igniter Co.

Mass., Taunton
Bay State Crucible Co.
Lincoln-Williams Twist Drill Co.
New Process Twist Drill Co.
Taunton Crucible Co.

Mass., Waltham
Waltham Grinding Wheel Co.
Waltham Machine Works
Superior Corundum Wheel Co.

Mass., Westfield
Planet Co., 170 N. Elm St.
Smith Co., H. B.
Vitrified Wheel Co.
American Electric Tool Co.

Mass., Winchester
Bacon Felt Co.

Mass., Worcester
Bay State Emery Wheel Co.
Coates Cliffin Mfg. Co.
Curtis & Marble Machine Co.
Forbes & Myers
Graton & Knight Mfg. Co.
Hudson Belting Co.
National Mfg. Co.
Norton Co., New Bond St.
Ramsdell Specialty Co., 679 W. Boylston St.
Reed-Prentice Co.

Rice, Barton & Fales Machine & Iron Co.
Rockwood Sprinkler Co. of Mass., 34-56 Harlow St.
Sleeper & Hartley, Inc., 68 Prescott St.
Spencer Wire Co.
Standard Plunger Elevator Co., 243 Stafford St.
Union Water Meter Co., 41 Harmon St.
Warren Co., J. F. & W. H.
Wright Wire Co., 69 Hammond St.

Mich., Allegan
Oliver & Co.

Mich., Ann Arbor
*Eberbach & Son Co.

Mich., Battle Creek
Advance Pump & Compressor Co.
American Mfg. Co.
American Steam Pump Co.
Keyes-Davis Co., Ltd.
Taylor Steam Specialty Co.
Union Steam Pump Co.

Mich., Bay City
Bay City Foundry & Machine Co.
Bay City Iron Works
Garland Co., M.
Industrial Works
MacKinnon Boiler & Machine Co.

Mich., Buchanan
Celfor Tool Co.

Mich., Detroit
Acme Fancy Wire Works, Canfield Ave & Moran St.
American Blower Co., 1400 Russell Ave.
Briscoe Mfg. Co., 1443 Woodward Ave.
Central Station Steam Co., 710 E. Woodbridge St.
Clayton & Lambert Mfg. Co., 201 Piquette Ave., E.
Colton Co., Arthur, 782 E. Jefferson Ave.
Detroit Blowpipe Co., 551 Grand River Ave.
Detroit Brass Works
Detroit Copper & Brass Rolling Mills, 95 Clark Ave., P. O. Box 818
Detroit Dental Mfg. Co., 22 Milwaukee Ave.
Detroit Engine Co., 1250 Jefferson St.
Detroit Fuse & Mfg. Co., 1400-1414 Rivard St.
Detroit Grinding Wheel Co., Jefferson and Field Sts.
Detroit Heating & Lighting Co., 335 Wight St.
Detroit Leather Specialty Co., Inc.
Detroit Lubricator Co.
Detroit Oak Belting Co., 266 Wight St.
Detroit Range Boiler Co., 607-623 24th St.
Detroit Seamless Steel Tube Co., 841 Jefferson Ave., W.
Detroit Shipbuilding Co., Orleans St.
Detroit Tool Co.
Detroit Twist Drill Co., 634-46 Fort West
Detroit Wire Cloth Co., 504 Howard St.
Diamond Power Specialty Co.
Eckliff Automatic Boiler Circulator Co.
General Aluminum & Brass Castings Co., East Grand Blvd.
Hoskins Mfg. Co., 453-471 Lawton Ave.
Hygeia Filter Co.
Johnson Optical Co., 66 State St.
Kerr Machinery & Supply Co.
Leyhson & Lane, Inc., Trussed Concrete Bldg.
McCord Mfg. Co., 2587 E. Grand Blvd.
Mead & Co.
Merz Capsule Co.
Michigan Copper & Brass Co., 611 W. Jefferson Ave.
Michigan Wire Cloth Co., 536 Howard St.
Moore & Son Co., E. C.
National Twist Drill & Tool Co.
Northern Engineering Works
Parke, Davis & Co.
Penberthy Injector Co.
Peninsular Emery Wheel Co., 253 Meldrum Ave.
Precision Instrument Co.
Robert Instrument Co., 56 Shelby St.
Russell Wheel & Foundry Co.
Scientific Instrument Co., 134 E. Larned St.
Star Corundum Wheel Co., 241 Cavalry Ave.
Stevens Mfg. Co., Roe
Trippensee Mfg. Co., 2679 E. Grand Blvd.
Trans-Con. Laboratories, Caniff Road and G. T. R. R.
Trussed Concrete Steel Co.
Welded Steel Barrel Corporation.
Zenner Disinfectant Co., 80 Lafayette St.

Mich., Grand Rapids
Clipper Belt Lacer Co., 974-1016 Front Ave., N. W.
Grand Rapids Brush Co.
Grand Rapids Chair Co.
Gunn Furniture Co.
Haney School Furniture Co.
Hart Mirror Plate Co.
Macey Co.
Phoenix Furniture Co.
Raniville Co., F., 241-243 Pearl St.
Sterling Desk Co.
Terrell's Equipment Co.
Wagemaker Co.

Mich., Holland
Novelty Wooden Shoe Co.
Mich., Jackson
Knickerbocker Co.
Mich., Kalamazoo
Clarage Fan Co.
Kalamazoo Tank & Sila Co.
National Vaporizer Co.
Upjohn Co.
Mich., Lansing
*Apparatus & Specialty Co.
Lansing Co.
Michigan Screw Co.
Mich., Manistree
Manistree Iron Works Co.
Michigan, Muskegon
Muskegon Boiler Works
Shaw-Walker Co., The
Mich., Miles
Acme Belting Co.
National Standard Co.
Mich., Otsego
Bardeen Paper Co.
Mich., Petoskey
Blackmer Rotary Pump Co.
Mich., Saginaw
Allington & Curtis Mfg. Co.
Herzog Art Furniture Co.
Mitts & Merrill, 816 S. Franklin St.
U. S. Graphite Co.
Werner & Pfleiderer Co., Inc., 1260 N. Niagara St.
Wickes Boiler Co.
Wickes Bros., 512 Water St.
Willcox Engineering Co.
Mich., Three Rivers
Sheffield Car Co.
Minn., Duluth
Clyde Iron Works, 29th Ave. West of Michigan Ave.
Union Match Co.
Minn., Mankats
Mayer Bros. Co., 198 Rock St.
Minn., Minneapolis
Decarie Incinerator Co.
Electric Machinery Co.
McCord & Co., Horace M., 1013 Lumber Exchange
Mereen-Johnson Machine Co.
Minneapolis Heat Regulator Co., 2747 4th Ave., S.
Minneapolis Steel & Machinery Co.
Sikes Co., S. E.
Zenith Scientific Laboratories, 21 5th Ave., N. E.
Minn., North St. Paul
Minneapolis Manufacturing Association.
Minn., Red Wing
Red Wing Iron Works
Minn., St. Paul
American Hoist & Derrick Co.
Helwig Mfg. Co.
Minn., West Duluth
Carbic Mfg. Co.
Minn., Winona
Union Fibre Co.
Mo., Kansas City
Brown Bed Mfg. Co., 4300 12th St.
Columbian Steel Tank Co.
Excelsior Powder Co.
U. S. Portland Cement Co.
Mo., St. Joseph
St. Joseph Pump & Mfg. Co.
Mo., St. Louis
Aloe Co., A. S., 510 Olive St.
Alvey Mfg. Co., 3201 S. Broadway
American Car & Foundry Co., 915 Olive St.
American Electric Machine & Elevator Co., 1706 N. 12th St.
American Oleite Sales Co., 1404 N Park Pl.
Arrow Boiler Compound Co., Commonwealth Trust Bldg.
Aufrichtig Copper & Iron Works, 900 S. Third St.
Barry-Wehmiller Machine Co., 6501 Florissant Ave.
Bayer Steam Soot Blower Co., 2828-40 La Salle St.
Bemis Bros. Bag Co., 600 S. 4th St.
Brecht Co., 1201 Cass Ave.
Certain-teed Products Corp., 314 N. Broadway
Columbia Can Co., Madison and 1st St.
Cook Cane Mill & Evaporator Co., 320 N. 2d St.
Cramer Dry Plate Co., G., Lemp and Shenandoah Aves.
Defender Automatic Regulator Co., 506 Oriel Bldg.
Dielectric Mfg. Co., 224 S. Vandeventer Ave.
Evans & Howard Fire Brick Co., 920 Market St.
Famous Filter Co., 301 N. Commercial St.
Flower Co., W. L., 310 S. 8th St.
Fulton Iron Works, 1257-61 Delaware Ave.
General Roofing & Mfg. Co.
Girtanner-Daviess Eng. & Contg. Co.
Gruendler Patent Crusher & Pulverizer Co., 928 N. 1st St.
Hammer Dry Plate Co., Ohio Ave. and Miami St.
Handlan-Buck Mfg. Co., 212 3d Ave.
*Heil Chemical Co., Henry, 210-214 S. 4th St.
Henderson-Willis Welding & Cutting Co., 2305-09 N. 11th St.
Hoyt Metal Co., Boatmen's Bank Bldg.

Laclede-Christy Clay Products Co., 1673 Railway Exchange Bldg.
Lane & Co., J. H., 334 4th Ave.
Ludlow-Saylor Wire Co., Newstand Ave. and Wabash R. R.
Medart Mfg. Co., Fred, Dekalb and Potomac Sts.
Mississippi Glass Co.
Moore-Jones Brass & Metal Co., 3144 N. Broadway
Modern Engineering Co., 23d and Walnut Sts.
Nelson Mfg. Co., 10th and Chestnut Sts.
Porbeek Dust Arrester & Blow Pipe Co., 2017 N. Broadway
Reardon Glue Mfg. Co., 1532 N. Broadway
Ruemmeli-Dawley Mfg. Co., 3900 Chouteau Ave.
St. Louis Brass Mfg. Co., Jefferson and Washington Aves.
St. Louis Car Co., 8000 N. Broadway
St. Louis Machine Tool Co., 2607 S. Broadway
St. Louis Paper Can & Tube Co., 4400 Union Blvd.
*Simmons Hardware Co.
Skinner Bros. Mfg. Co., 100 Tyler Ave.
Weber & Co., F., 825 Washington Ave.
Wissler Instrument Co., 615 N. Broadway
Zellweger & Sons, John, 1900 Adelaide Ave.

Mo., Springfield
Union Iron Works Co,
United Iron Works

Neb., Lincoln
Lee Broom & Duster Co.

Neb., Omaha
Baker Ice Machine Co.

N. H., Lakeport
Bickford & Co., H.

N. H., Alton
Rockwell, Clough Co.

N. H., Dover
Williams & Sons, I. B.

N. J., Aldena (Roselle P. O.)
Watson Stillman Co., The

N. J., Ampere
Crocker, Wheeler Co.

N. J., Arlington
Lovell & Co., F. H.

N. J., Asbury; Warren County
Asbury Graphite Mills

N. J., Rawlinsville
Morris Machine Works

N. J., Bayonne
Bayonne Bolt & Nut Co.
Bergen Point Iron Works, W. 5th St.
Cox Engineering & Tube Bending Machine Works
Standard Oil Co.

N. J., Belleville
Bartlett Vacuum Jar Co.
Hardman Tire & Rubber Co.

N. J., Bloomfield
Condensite Co. of America
Empire Cream Separator Co.

N. J., Bridgeton
Cox & Sons Co.
Cumberland Glass Mfg. Co.

N. J., Burlington
Stuart & Peterson Co.
U. S. Cast Iron Pipe & Foundry Co.

N. J., Camden
Webster & Co., Warren

N. J., Carteret
Sheller Condenser & Engineering Co.

N. J., Dunellen
Ransome Concrete Machinery Co.

N. J., East Carteret
Wheeler Condenser & Engineering Co.

N. J., East Orange
New York Blower Co.
Smith Mfg. Co., A. P.

N. J., Elizabeth
American Metal Treatment Co.
Bayway Chemical Co.
Braunsdorf Mueller Co.
Diehl Mfg. Co.
Moore & Sons Corp., Samuel L.

N. J., Flemington
Fulper Pottery Co.

N. J., Garwood
Garwood Bronze & Iron Works

N. J., Glassboro
Whitney Glass Works

N. J., Haddonfield
Wingender & Bro., Chas.

N. J., Hamilton Square
Mercer Rubber Co.

N. J., Hampton
Standard Water Systems Co.

N. J., Harrison
Driver-Harris Wire Co.
Shriver & Co., T.

N. J., Hoboken
Cooper-Hewitt Electric Co.
Daube & Hopkins Co.
*Keuffel & Esser Co.
Schrenk & Co.
Schwarzwalder & Sons, Inc., J., 15th and Jefferson Sts.

N. J., Jersey City
Booth Co., L. M., 62 Hudson St.
Daube & Hopken
Davis-Bournonville Co.
Dixon Crucible Co., Joseph
Drop Forging Co., 299 West Side Ave.
Gautier & Co., J. H.
Koven & Bro., L. O., 154 Ogden Ave.
N. Y. Revolving Portable Elevator Co., 346-352 Garfield Ave.
Standard Motor Construction Co., 172-80 Whiton St.

N. J., Matawan
Munning-Loeb Co.
N. J., Millville
International Glass Co.
Millville Bottle Works
Wheaton Co., T. C.
N. J., Newark
Acid Proof Iron Products Co., Inc., 41 Hermon St.
Alpha Alcohol Utensil Co., 367 N. 5th St.
Alpha M'g. Co.
American Platinum Works, 225-231 New Jersey R. R. Ave.
American Thermostat Co., 101 Mechanic St.
Atha Toll Co., Ft. Chapel St.
Automatic Weighing Machine Co., 134-140 Commerce St.
Baker & Co., Inc., Murray & Austin Sts.
Bernx, Otto, 21 Ashland Ave.
Bishop & Co., Inc.
Burroughs Co., Charles, 141-149 Commerce St.
Coe & Co., C. T., 10-14 Johnson St.
Couse & Bolton, 42-46 Lafayette St.
Currier & Sons, Cyrus
Electric Heating Apparatus Co., 123-125 Sussex Ave.
Essex Foundry, Murray St. and Ave. D
Faber, A. W., 41 Dickerson St.
Gamon Meter Co., 282-296 South St.
Gould & Eberhardt
Greef Engineering & Mfg. Co., 36 Spring St.
*Hanovia Chemical & Manufacturing Co., Chestnut St. and N. J. Railroad Ave.
Hanson & Van Winkle Co., 269 Oliver St.
Isbell-Porter Co.
Johnson, Wm., 88 Warren St.
McCabe Boiler Works, 195 Commerce St.
Manufacturers Can Co., 426 Mulberry St.
Metal Products Co.
National Lock Washer Co.
Newark Brass Works, 20 Lawrence St.
Newark Chamois Co.
Newark Cork Works, 39 Barbara St.
Newark Gear Cutting Machine, 69 Prospect St.
Newark Wire Cloth Co., 222-228 Verona Ave.
N. J. Wire Cloth Co.
Rossendale-Reddaway Belting & Hose Co.
Sayre & Son, L. A., 332 Mulberry St.
Sloan & Chance Mfg. Co., Ltd., 6th Ave., cor. N. 13th St.
Storm Mfg. Co., 50 Vessey St.
Thermo Electric Instrument Co.
Tobin & Co., James L., 279 Oraton St.
Webb Mfg. Co., Foot of Centre St.
Weston Electrical Instrument Co., Waverly Park
Williamson Wire Works, C. T.
N. J., New Brunswick
Brunswick Refrigerating Co.
Goetze Gasket & Packing Co.
India Rubber Co.
Pennsylvania Rubber Co.
N. J., New Jersey
Flynn, W. S.
Flynn, W. S., 74 Hudson St.
Smooth-on Mfg. Co., 570-74 Communipaw Ave.
N. J., Nutley
Booth Co., L. M., 120 Center St.
N. J., Orange
Edison Storage Battery Co.
N. J., Passaic
Brighton Mills
Dick, Ltd., R. & J.
Manhattan Rubber Mfg. Co.
Pantasoto Leather Co.
Richardson Scale Co.
N. J., Perth Amboy
Chemical Pump & Valve Co.
Didier-March Co., P. O. Box 327
Pardee Works, C.
N. J., Plainfield
New Jersey Meter Co.
Rubber Insulated Metals Co.
N. J., Rochester
Rochester Stamping Co.
N. J., Rutherford
Becton, Dickinson Co.
N. J., Trenton
Acme Rubber Mfg. Co.
Bartley Crucible Co., J.
Consolidated Rubber Co.
Crossley Machine Co., Bell and Monmouth Sts.
De Laval Steam Turbine Co.
Empire Rubber & Tire Co.
Hamilton Rubber Mfg. Co.
Home Rubber Co.
Maddock Sons Co., Thomas
New Jersey Wire Cloth Co.
Pryolectric Instrument Co., 148 E. State St.
Roebling Son Co., John A.
Stokes Rubber Co., Jos.
Thermoid Rubber Co.
Trenton Potteries Co.
United & Globe Rubber Mfg. Co.
N. J., Vineland
Durand Glass Co.
Kimball Glass Co.
Sayford Paper Specialty Co.
N. J., Williamstown
Williamstown Glass Co.

N. J., Woodbury
Hodges Water Still Co., Inc., 33 S. Broad St.
N. Y., Albany
Consolidated Car Heating Co.
Huyck & Sons, F. C.
Townsend Furnace & Machine Shop Co.
N. Y., Amsterdam
Klauder-Weldon Dyeing Machine Co.
N. Y., Ancram
Ancram Paper Mills
N. Y., Auburn
Columbian Rope Co., 3050-75 Genesee Ave.
Jewell Mfg. Co.
N. Y., Baldwinsville
Morris Machine Works
N. Y., Beacon
Green Fuel Economizer Co.
N. Y., Binghamton
Jones of Binghamton, Inc.
N. Y., Bladsell
Exolon Company
N. Y., Bronxville
Ward, Leonard Electric Co.
N. Y., Brooklyn
Abernathy, John F., 703 Myrtle Ave.
Adams Co., J. J., 122 Greenpoint Ave.
Arwe Mfg. Co., Carl H., 1348 DeKalb Ave.
Atlantic Smelting & Refining Works, 36-42 Delaran St.
Berg Mfg. Co., James, 3702 12th Ave.
Bliss Co., E. W., 19 John St.
Booth Felt Co., Inc., 440 19th St.
Brandis & Sons Mfg. Co., 754 Lexington Ave.
Brooklyn Filter Bag Co., 643 Kent Ave.
Brooklyn Glass Co., 207 Hale Ave.
Burh Demijohn Co.
Burkhard, Inc., Thomas, 494 Flushing Ave.
Crowell Mfg. Co., 298 Taaffee Pl.
Boehler Die-Castings Co., 9th and Court Sts.
Empire Tinware Co., 31 S. 5th St.
Faber, Eberhard, 137 Greenpoint Ave.
Gehnrich Indirect Heat Oven Co., Inc., 60-62 Franklin Ave.
Graham Chemical Pottery Works, Charles, 986 Metropolitan Ave.
Guild & Harrison, 463 Kent Ave.
Hald Blow Pipe Works, Emil, 84 Oak St.
Hauck Mfg. Co., 140 Livingston St.
Hay-Budden Mfg. Co., 256 N. Henry St.
Hindley & Pendleton Co., 74 Greenpoint Ave.
Houchin-Aiken Co., 113 53d St.
Howard & Morse, 1197-1211 De Kalb Ave.
Hubbard's Sons, Norman, 265 Water St.
International Cork Co., 99 Sutton St.
Johnson Co., Jno., 37th and 2d Ave.
Katz & Co., Wm.
Kelker Blower Co.
Kent Inc., Robert Sayre, 50 Court St.
Kessling, E., 1027 Madison Ave.
Krajewski Pesant Corp., 52 Beard St.
Johnson Co., J. D., 51 Boerum Pl.
Leffler & Co., Chas., 49-73 Clymer St.
Lowerator Co., Inc., 631 Kent Ave.
Lutz Mfg. Co., 162 Albany Ave.
Meadon's Blower & Pipe Works, 23-27 Meserole Ave.
Meurer Steel Barrel Co., Inc., 567 Flushing Ave.
Moeller, A. E., 263 Sumpter St.
Moller & Schuman Co., Marcy and Flushing Aves.
Monarch Valve Co., 112 Front St.
Moussette Co., Inc., O. J., 22-26 Clay St.
Mundet & Son, L., King and Ferris St.
National Filter & Cloth Weaving Co., 57 Hope St.
National Gauge Co., 300 Pacific St.
New York Leather Belting Co., 465 Kent Ave.
New York Stamping Co., N. 11th and Berry Sts.
Paddock Cork Co., 1209 DeKalb Ave.
Phenix Tube Co., 182 N. 11th St.
Phoenix-Hermetic Co., 38th and 14th Ave.
Pioneer Iron Works, 149 Pioneer St.
Planten & Sons, H., 93 Henry St.
Robertson & Co., John, 133 Water St.
Ross & Son Co., Chas.
Schaeffer & Budenberg Mfg. Co., Berry and S. 5th Sts.
Silver & Co., 304 Hewes St.
Standard Rolling Mill, 363 Hudson Ave.
Sternau & Co., S., 160 John St.
Sunlight Reflector Co., 141 Court St.
Tagliabue Mfg. Co., C. J., 18 33d St.
Trustlow & Fulle, Inc.
Vant-Woud Rubber Co.
Vogel & Bros., Wm., 47 S. 9th St.
Ward, Marcus Co.
Wilhelm, Henry, 70 Frost St.
Williams & Co., J. H., 73 Richards St.
N. Y., Buffalo
Aldrich Manufacturing Co., 55 Illinois St.
Barcalo Mfg. Co.
Bicalky Fan Co., 866 Prospect Ave.
Bickford & Francis Belting Co.
Buffalo Copper & Brass Rolling Mill. 446 Military Road

Buffalo Dental Mfg. Co., 587 Main St.
Buffalo Engineering Co., Erie County Bank Bldg.
Buffalo Forge Co., 490 Broadway
Buffalo Foundry & Engineering Co.
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves.
Buffalo Meter Co., 2913 Main St.
Buffalo Scale Company, 1200 Niagara St.
Buffalo Steam Pump Co., 480 Broadway
Buffalo Wire Works Co., 500 Terrace St.
Carrier Air Conditioning Co., 490 Broadway
Century Telephone Construction Co., 1738 Elmwood Ave.
Cling-Surface Company
Cox Process Co.
Crosby Co., 137 Pratt St.
Cutler Desk Co., 34 Churchill St.
Devine Company, J. P., 1376-1388 Clinton St.
Excelsior Steel Ball Co.
Farrar & Trefts, Inc., 47 Perry St.
General Specialty Co., 291-295 Michigan Ave.
Hercules Waterproof Cement Co., Mutual Life Bldg.
Hewitt Rubber Co., 240 Kensington Ave.
Hoover & Strong, 119 Tupper St.
Lobee Pump Works, 19-31 Bridge St.
Lowers Mfg. Co.
Lumen Bearing Co., 1155 Sycamore St.
National Grinding Wheel Co., Inc.
Oxygenator Co., Mooney Bldg.
Pierce Co., William E., 45 N. Division St.
Ray Mfg. Co., Geo. A., 1495 Niagara St.
Republic Metalware Co., 100 Alabama Ave.
Rice & Adams Corporation
Ross Heater & Mfg. Co., Inc., 504 Mutual Life Bldg.
Ruger Mfg. Co., 222 Chicago St.
Sherwood Mfg. Co., 1702 Elmwood Ave.
Sowers Mfg. Co., 1300 Niagara St.
Spencer Lens Co., 442 Niagara St.
Squier Mfg. Co., Geo. L., Broadway and Mortimer Sts.
Stowe, Geo. M. Jr., 119 Dearborn St.
Taber Pump Co.
Trout Co., H. G., 226 Ohio St.
Zaremba Co., Nagara Life Ins. Bldg.

N. Y., Burlington
Stuart & Peterson Co.

N. Y., Canandaigua
Lisk Mfg. Co.

N. Y., Carthage
Carthage Machine Co.
Carthage Sulphite Pulp & Paper Co.

N. Y., Corning
Corning Glass Works

N. Y., Cortland
Champion Milk Cooler Co.

N. Y., Dunkirk
Atlas Crucible Steel Co.

N. Y., Elmira
American-La France Fire Engine Co., Inc.
Kennedy Valve Mfg. Co.

N. Y., Franklinville
Ontario Knofe Co.

N. Y., Fulton
Fulton Aluminum Works

N. Y., Geneva
Chapman Co.

N. Y., Glen Cove
Ladew Co., Inc., Edward R.

N. Y., Gloucester
Welsbach Co.

N. Y., Hillburn
Ramapo Iron Works

N. Y., Hoboken
Tidewater Iron Works, 725 Jefferson St.

N. Y., Hudson
Clifford-Wood Co.

N. Y., Ithaca
Morse Chain Co.
Morse Thermo-Gage Co., Inc.

N. Y., Jamestown
Art Metal Construction Co.
Dahlstrom Metallic Door Co., 10 Blackstone Ave.
Jamestown Window Screen Co.
Watson Mfg. Co.

N. Y., Lackawanna
Lackawanna Steel Co.

N. Y., Lancaster
Lancaster Machine & Knife Works

N. Y., Little Falls
*Burrell & Co., D. H.

N. Y., Livingston
Hunt Co., C. W.

N. Y., Lockport
Fibre Corporation
Merritt Mfg. Co.

N. Y., Long Island City
Anthony Company, 133 West Ave.
Commercial Research Co.
Horn Company, A. C. C.
Jensen Creamery Machine Co.
Leddell Metals Co., 285 Border St.
Rubber Stopper Co.
Steubner Iron Works, G. L., Hancock St. and Vernon Ave.
Surface Combustion Co., Wilbur Ave. and Sunswick St.

N. Y., Mariners Harbor
Waters Co., Geo. H.

N. Y., Mechanicsville
Mechanicsville Specialty Supply Co.
N. Y., Mt. Lebanon
Wagan & Co., R. M.
N. Y., Napanoch
Frost & Son Paper Co.
N. Y., Newburgh
Coldwell-Wilcox Co.
N. Y., New York City
Abbe Engineering Co., 220 Broadway
Abbe, Paul O., Johnston Bldg., New St. and Exchange Pl.
*Acme Tank Co., 39 Cortlandt St.
Aero Pulverizer Co., 120 Broadway
Aetna Explosives Co., 12 Rector St.
Aetna Steel Products Co., Inc., 40 Church St.
Aimone Mfg. Co., 430 E. 23d St.
Air Reduction Sales Co., 120 Broadway
Akerlund & Semmes, Inc., 17 Battery Pl.
Alberger Pump & Condenser Co., 140 Cedar Ave.
Alberene Stone Co., 223 E. 23d St.
Allan & Son, A., 494 Greenwich St.
Aluminum Goods Mfg. Co., 30 Church St.
Amalgamated Paint Co., 42 Broadway
American Brass Forging Co., Inc., 168 Southern Blvd.
American Can Co., 120 Broadway
American Car & Foundry Co., 165 Broadway
American Enameled Brick & Tile Co., 52 Vanderbilt Ave.
American Ever Ready Co., 304 Hudson Ave.
American Foundry Equipment Co., 52 Vanderbilt Ave.
American Gas Furnace Co., 24 John St.
American Glue Works, 14 Ferry St.
American Hard Rubber Co., 11 Mercer St.
American Iron Scale Co., 430 E. 53d St.
American Lead Burning Corp., 30 Church St.
American Lead Pencil Co., 220 5th Ave.
American Mica Co.
American Process Co., 68 William St.
American Rust Proof Co., 39 Church St.
American Sponge & Chamois Co., Inc., 73 Wooster St.
American Spray Co., 26 Cortland St.
American Steel Co., 45 W. 34th St.
American Textile Special Machinery Co., 109 Fifth Ave.
American Thermo-Ware Co., 16 Warren St.
Ajax Grieb Rubber Co., 1796 Broadway
Andrews, Inc., William, 120 Liberty St.
*Reeve Angel & Co., Inc., H., 120 Liberty St.
Asbestolith Mfg. Co., 1 Madison Ave.
Ashenfarb, S. L., 356 W. Broadway
Automatic Sprinkler Co. of America, 123 William St.
Bache, Semon & Co., West & Hubert St.
Barowsky, Hans, 32 Union Square
Barrett Co., The, 17 Battery Pl.
Bauer & Black, 104 E. 25th St.
Beach-Russ Co., 220 Broadway
Becker, Inc., Christian, 92 Reade St.
Beggs & Co., James, 36 Warren St.
*Behrend, F., 54 Front St.
*Berge, J. & H., 95 John St.
Bernard & Co., F. J., 70 Murray St.
Best, Inc., W. N., 11 Broadway
Bethlehem Foundry & Machine Co., 149 Broadway
Binney & Smith Co., 81 Fulton St.
Bishop Gutta Percha Co., 420 E. 25th St.
Blake & Knowles Steam Pump Works, 115 Broadway
Boettinger Co., Louis A., 48 Leonard St.
Bogert & Hopper, 162 William St.
Bohemian Glass Works, 10 Platt St.
Bonner & Barnwell, Inc., 30 Church St.
Bontempi Rust Proofing Co., 1 W. 34th St.
Borgfeldt & Co., Geo., 16th and Irving Pl.
Bosch Magneto Co., 223-25 W. 46th St.
Bouline, Victor J., 1 Union Square
Boyle & Co., John, 112 Duane St.
Bradley & Smith, 261 Pearl St.
Branhall-Deane Co., 261 W. 36th St.
Bronze Metal Co., 30 Church St.
Brown Co., The A. & F., 79 Barclay St.
Buchanan Co., Inc., C. G., 90 West St.
Bunnel & Co., J. H., 32 Park Pl.
Burhorn Co., Edwin, 71 Wall St.
Cameron Steam Pump Works, A. S., 11 Broadway
Carboy Inclinator Co., 1269 Broadway
Carrier Air Conditioning Co. of America 490 Broadway
Carrier Engineering Corp., 39 Cortland St.
Cave Welding & Mfg. Co., 32 Liberty St.
Celite Products Co., 11 Broadway
Celluloid Zapon Co., 200 5th Ave.
Central Belting Co., 151 Lafayette St.
Central Stamping Co., 174 Fulton St.
Chatillon & Sons, John, 85-93 Cliff St.
Clothel Company, 61 Broadway

Combustion Engineering Corp., 11 Broadway
Connelly Iron Sponge & Governor Co., 227 Fulton St.
Consolidated Fruit Jar Co., 290 Broadway
Conveying Weigher Co., 90 West St.
Corcoran, A. J., Inc., 11 John St.
Cordley & Hayes, 7 Leonard St.
Colling Tower Co., Inc., The, 17 John St.
Consolidated Dental Mfg. Co., 134 Washington Pl.
Cooper & Co., Chas., 194 Worth St.
Cornell Iron Works, 26th and 11th Ave.
Cravenette Co., U. S. A., 354 4th Ave.
Deeley & Co., Robert, 29 Broadway
Demuth Glass Mfg. Co., 32 W. Broadway
Diamond Expansion Bolt Co., 90 West St., cor. Cedar
Delaval Separator Co., 165 Broadway
Dicks Slosson Co., Inc., 302 Broadway
De La Vergne Machine Co., 1123 E. 138th St.
Doniger & Co., 164 5th Ave.
Dorl & Co., F., Park Row Bldg.
Dorr Co., The, 17 Battery Pl.
Dougherty, J. T., 409 W. 59th St.
Dover Boiler Works, 50 Church St.
Dreadnaught Flooring Co., Madison Ave. and 42d St.
DuBois & Co., F. N., 245 9th Ave.
Du Pont Chemical Works, 120 Broadway
Duriron Castings Co., 90 West St.
DuViver, Ernest H., 30 Church St.
Eagle Pencil Co., 377 Broadway
Eimer & Amend, 205-11 3d Ave.
Electrolytic Oxy-Hydrogen Labs., Inc., 15 William St.
Electric Weighing Co., 180 13th St.
Electro Importing Co., 233 Fulton St.
Elgin Brass Co., 94 John St.
Engelhard, Charles, 30 Church St.
Equitherm Control Corp., 30 Church St.
Estes & Sons, E. B., 362 5th Ave.
Estey Wire Works, 32 Cliff St.
Fairbanks Co., 416 Broome St.
*Farrell, W. J., 115 Maiden Lane
Foote, Pierson & Co., 160 Duane St.
Foundation Co., The, Woolworth Bldg.
Fortuna Machine Co., 127 Duane St.
Fougera & Co., E., 90 Beekman St.
Frasse & Co., Inc., Peter A., 417 Canal St.
Frink, Isaac P., 551 Pearl St.
Fuerst Bros. & Co., 2 Stone St.
Garrigue & Co., Wm., 154 Nassau St.
Gary Co., Theo. H., 67 Irving Pl.
General Bakelite Co., 2 Rector St.
Gedney Capsule Co., 767 E. 133d St.
General Briquetting Co., 25 Broad St.
General Ceramics Co., 50 Church St.
General Elevator Co., 29 Broadway
General Platers Supply Co., Inc., 58 Wall St.
Gennert, G., 24 E. 13th St.
Gerdes & Co., Inc., 36 Church St.
Goeble & Co., J., 129 Maiden Lane
Goepel & Co., C. F., 137 E. 13th St.
Gold Car Heating & Lighting Co., 17 Battery Pl.
Goodyear Glove Co., 503 Broadway
Goodyear Rubber Co., 787 Broadway
Gordon Engineering Corp., 39 Cortlandt St.
Grafrath, Chas., 360 W. 50th St.
*Graham & Berwin, (Imp.), 148 Chambers St.
Graham Chemical Pottery Works, The Charles, 986 Metropolitan Ave.
Graham & Co., John H., 113 Chambers St.
*Graham & Zenger, Inc., (Imp.) 104 5th Ave.
Grand Rapids Show Case Co., 724 Broadway
Grape Capsule Co., 108 Fulton St.
Green Fuel Economizer Co., The, 90 West St.
Greene, Tweed & Co., 109 Duane St.
*Greiner Co., Emil, 55 Fulton St.
Griscom-Russell Co., 90 West St.
Guarantee Construction Co., 90 West St.
Gutman & Co., Ferdinand, 175 Franklin St.
Gutta Percha & Rubber Mfg. Co., 127 Duane St.
Guttman, A., 10 McDougal St.
Haiss Mfg. Co., Geo., 141st and Rider Ave.
Hahn, A. W., 359 Greenwich St.
Hammel Oil Burning Equipment Co., 350 Pearl St.
Hardinge Conical Mill Co., 120 Broadway
Hardmuth, L. & C., 34 E. 23d St.
Haring, Ellsworth, 114-18 Liberty St.
Hastings Pavement Co., 25 Broad St.
Hayes Duster Co., 83 Grand Ave.
Hayward & Co., S. F., 250 W. 54th St.
Hayward Co., 50 Church St.
Henry-Bonnard Bronze Co., 20 Exchange Pl.
Hepworth Co., S. S., 2 Rector St.
Higley Machine Co., Singer Bldg.
Hirshberg Co., H. M., 39 E. 20th St.
Hodgman Rubber Co., 806 Broadway
Holly Pneumatic Systems, Inc., 145 W. 45th St.
Holophane Glass Co., Inc., 240 Madison Ave.

*Holz, Herman A., Metropolitan Tower
Hooker Electrolytic Chemical Co., 40 Wall St.
Hospital Supply Co., 55 5th Ave.
Houchin Co., Thos. W., 38 E. 21st St.
Howe Scale Co., of New York, 341 Broadway
Hungerford Brass & Copper Co., U. T., 84 La Fayette Ave.
Hydrex Felt & Eng. Co., 120 Liberty St.
Hydro-Pneumatic Disinfecting Co., 221 Mercer St.
Ilsley, Doubleday & Co., 229 Front St.
Imex Corp., 25 Beaver St.
Improved Equipment Co., 60 Wall St.
Independent Filter Press Co., Inc., 47 W. 34th St.
Indian Refining Co., 17 Battery Pl.
Industrial Filtration Co., 115 Broadway
Ingersoll-Rand Co., 11 Broadway
International Filtration Corp., 115 Broadway
International Oxygen Co., 115 Broadway
International Rubber Co., 225 5th Ave.
Isaacs & Co., A., 54 Beekman St.
Jacoby, H. E., 95 Liberty St.
Jenkins Bros., 80 White St.
Johns-Manville Co., Madison Ave. and 41st St.
Jordan, William E., 11 Cliff St.
Kahn, Jacques, 533 W. 37th St.
Kalbperry Corp., 31 Union Square
K.-B. Pulverizer Co., 86 Worth St.
Kellogg Co., The M. W., 90 West St.
Kennedy-Stroh Corp., 120 Liberty St.
Keystone Chemical Mfg. Co., 141 Broadway
Kidder Mfg. Co., Jerome, 820 Broadway
Kieley & Mueller, Inc., 34 W. 13th St.
Kiggins & Tooker Co., 35 Park Pl.
King Optical Co., 14 Maiden Lane
Knapp Mfg. Co., 48 Warren Ave.
*Kny-Scherer & Co., 404 W. 27th St.
Kohlbusch Herman, 170 Broadway
Koller & Smith, Inc., 159 Leonard St.
Lalance & Grosjean Mfg. Co., 299 Broadway
Lamb, Finlay & Co., 258 Church St.
Lane & Co., J. H., 334 4th Ave.
Larkin & Co., J. K., 34 Reade St.
Laskor & Bernstein, 161 William St.
Laurence Belting Co., 111 Chambers St.
Lawson & Co., Inc., 90 West St.
Leavitt & Co., C. W., 36 Church St.
Lehn & Fink, Inc., 120 William St.
Leiner & Co., Geo. S., 1250 Brook Ave.
Leitz, Ernest, 30 E. 18th St.
*Lenz Apparatus Co., Inc., 18 E. 16th St.
Clonney & Co., 32 Walker St.
Lidgerwood Mfg. Co., 96 Liberty St.
Locomotive Pulverized Fuel Co., 30 Church St.
Locomotive Superheater Co., 30 Church St.
Louis Co., O. T., 70 5th Ave.
Lubricating Metal Co., 2 Rector St.
Ludlum Steel Co., 2 Rector St.
*Lungwitz, Emil E., 30 Church St.
MacGovern & Co., Inc., 114 Liberty St.
Machinery Utilities Co., Inc., 501 5th Ave.
Machlett & Son, E., 153 E. 84th St.
Magnolia Metal Co., 115 Bank St.
Magnus Co., The, 111 Broadway
Manhattan Electrical Supply Co.
Maris & Co., J. M., 40 Barclay St.
Mashek Engineering Co., 90 West St.
Maurer & Sons, Henry, 420 E. 23d St.
McKesson & Robbins, Inc., 91 Fulton St.
Mechanical Rubber Co., 73 Reade St.
Melville, F. L., 83 Water St.
Metal & Thermit Corp., 120 Broadway
Metals Productions Equipment Co., 165 Broadway
Mica Mfg. Co., 152 Chambers St.
Miller & Co., C. L.
Miller Rubber Co., 68 Murray St.
Mine & Smelter Supply Co., 42 Broadway
Minimax Co., 63 Wall St.
Mitchell-Bissell Co., 4th Ave. and 20th St.
Montgomery & Co., Inc., 105-107 Fulton St.
Moore Filter Co., 115 Broadway
Morris & Co., Theo. W., 440 Canal St.
Mott Iron Works, J. L., 118 5th Ave., Cor. 17th St.
Mosen Son & Co., A., 73 Wooster St.
Multi Metal Separating Screen Co., 68 E. 131st St.
Napier-Browning Co., 105 W. 40th St.
National Aniline & Chemical Co., 100 William St.
National Binding Machine Co., 260 West St.
National Gum & Mica Co., 59th St. and 11th Ave.
National Enameling & Stamping Co., 347 Broadway
National Helmet Co., 39 Park Pl.
National Lead Co., 111 Broadway
National Leather Belting Co., 342 E. 38th St.
National Meter Co., 84-86 Chambers St.

National Resuscitating Apparatus Company, Inc., The, 39 E. 19th St.
National Sponge & Chamois Co., 158 William St.
Neptune Meter Co., 90 West St.
New Jersey Foundry & Machine Co., 88 West St.
New York Air Brake Co., 165 Broadway
New York Belting & Packing Co., 91 Chambers St.
New York Blue Print Paper Co., 58 Reade St.
New York Continental Jewell Filtration Co., 15 Broad St.
New York Rubber Co., 84 Reade St.
Niles-Bement-Pond Co., 111 Broadway
Oakley Chemical Co., 40 Thomas St.
Ordway, Charles, 174 Fulton St.
Ostermoor & Co., 116 Elizabeth St.
Ostrander & Co., W. R., 371 Broadway
Otis Elevator Co., 11th and 26th St.
Otto Coking Co., 6 Church St.
*Palo Company, 90 Maiden Lane
Peerless Rubber Mfg. Co., 31 Warren Ave.
Permutit Co., The, 440 4th Ave.
Pignolet, Louis M., 78 Cortlandt St.
Post & Co., E. L., 50 Cliff St.
Pratt & Whitney Co., 111 Broadway
Provost Engineering Corporation, 220 Broadway
Quigley Furnace Specialties Co., Inc., 26 Cortlandt St.
Rahmann & Co., Geo., 31 Spruce St.
Redfield & Co., Robert S., 17 Battery Pl.
Reich, L. R., 66 Reade St.
Reilley Bros., 322 W. 41st St.
Reisert Automatic Water Purifying Co., 23 E. 26th St.
Robbins Conveying Belt Co., Park Row Bldg.
Roberts Elevator Co., James H.
Robertson & Son, James L., 78-80 Murray St.
Robinson Clay Products Co., of New York, Fuller Bldg.
Roessler & Hasslacher Chemical Co., 100 William St.
Roller-Smith Co., 233 Broadway
Rogers Wire Works, Inc., 291 Broadway
Roos Son, August, 429 E. 91st St.
Rothschild, Meyers & Co., 30 Irving Pl.
Ruggles-Coles Engineering Co., 50 Church St.
Rutter, Arthur T., 256 Broadway
St. Lawrence Talc Co., 7 E. 42d St.
Sanborn Evaporator Co., 50 Broad St.
Sand Mixing Machine Co., 52 Vanderbilt Ave.
Sarco Co., Inc., Woolworth Bldg.
Scandinavia Belting Co., 106-108 Reade St.
Schaaf-Regelman, E., 21 State St.
Scheel, Wm. H., 159 Maiden Lane
Scheidig & Co., John, 32 Maiden Lane
Schieffelin & Co., 170 William St.
Schieren Co., Chas. A., Schieren Bldg
Schuchardt & Schutte, 90 West St.
Schwartz Belting Co., 76 Murray St.
*Schwenker, Inc., W. M., 340-144 E. 92d St.
Scientific Equipment Co., 70 5th Ave.
Sedgwick Machine Works, Inc., 128 W. Liberty St.
Selas Co., 521 W. 23d St.
Shore Instrument & Mfg. Co., 557 W. 22d St.
Sidio Co. of America, Inc., The, 37 Murray St.
Simmons Co., John, 110 Center St.
Sittig, J. W., 5 Beekman St.
Slocum, Avram & Slocum Lab., Inc.,
Smith-Serrall Co., Inc., Cedar and West Sts.
Smith & Co., Alfred H., 35 W. 33d St.
Soltmann, E. G., 134 W. 29th St.
Sonneborn Sons, Inc., L., 262 Pearl St.
Spencer Optical Co., 7 Maiden Lane
Sprague Electric Works, 527 W. 34th St.
Standard Oil Co., 26 Broadway
Standard Scientific Co., 147 Waverly Pl.
Standard Steam Specialty Co., 542 W. Broadway
Star Expansion Bolt Co., 147-149 Cedar St.
Stevens, Aylsworth Co., Inc., 253 Broadway
Stevens Bros., 149 Broadway
Stitzel & Buecher, 155 W. 29th St.
Stokes & Co., Wm. A.
Strauss & Co., Adolph, 678 Broadway
Susfield, Lorsch & Co., 90 Maiden Lane
Swedish Iron & Steel Corp., 12 Platt St.
Talc Products Co., 11 Pine St.
Ten Broeck & Hubber, Inc., 214 E. 23d St.
Texas Co., 17 Battery Pl.
Thermal Syndicate, Ltd., The, 50 E. 41st St.
Tirrill Gas Machine Lighting Co., 103 Park Ave.
Toch Bros., 320 5th Ave.
Tolhurst Machine Works, 111 Broadway
Torsion Balance Co., 92 Reade St.
Treadwell Co., M. H., 140 Cedar St.
Troegerlith Tile Co., 103 Park Ave.
Trageser Steam Copper Works, Jno., 447 W. 26th St.

Thurnauer & Bro., G. M., 83 Worth St.
Traun Rubber Co., 335 Broadway
Turl Iron & Car Co., Inc., 50 Broad St.
Turl's Sons, Jno., 55 Liberty St.
*Turner, Halsey Co., 62 Leonard St.
Uehling Instrument Co., 71 Broadway
United Lead Co., 111 Broadway
U. S. Bottle Machinery Co., 90 W. Broadway
United Brush Mfg. Co., 203 Lafayette St.
U. S. Gauge Co., 67 Wall St.
U. S. Indestructible Gasket Co., 52 Church St.
U. S. Mineral Wood Co., 281 Madison Ave.
U. S. Tire Co., Broadway and 58th St.
Van Emden & Co., H., 145 W. 45th St.
Van Wagoners-Linn Construction Co., 1133 Broadway
Vatudrip Co., 30 Church St.
Vulcanized Rubber Co., The, 251 4th Ave.
Waddell & Co., R. J., 55 Beekman St.
Wagner Bros. Co., 45 John St.
Wagner Glass Works, 965 E. 132d St.
Waite & Bartlett Mfg. Co., 252 W. 29th St.
Warner Chemical Co., 52 Vanderbilt Ave.
Washburn & Granger, 50 Church St.
Waterbury Co., 63 Park Row
Watters Laboratories, Cons., 55 5th Ave.
Weinhagen, H., 159 Leonard St.
Welding Supply Co., Inc., 132 Nassau St.
West Disinfecting Co., 9 E. 59th St.
Western Electric Co., 463 West St.
Westinghouse, Church, Kerr & Co., 37 Wall St.
Wetmore Co., S. H., 242 Pearl St.
Wheeler-McDowell Elevator Co., 417 Canal St.
White, Fred C., 241 Water St.
Whitney Glass Works, 220 Broadway
Wiebusch & Hilger, 106 Lafayette St.
Wildman-Treherne Co., 85 Franklin St.
Wilfert Co., John, 259 Broadway
Wilkinson Bros. & Co., 419 Broome St.
Williams-Electro-Medical Battery Co., 82 W. Broadway
Williams, Roger, 25 W. 42d St.
Williamsburg Cork Works, 50 Church St.
Willmarth Show Case Co.
Wilson-Maeulen Co., 781 E. 142d St.
Wing Mfg. Co., L. J., 352 W. 13th St.
Wolf & Co., Chas. A., 50 Park Pl.
Worthington Pump & Machinery Corp., 115 Broadway
Young Co., Richard, 36 Spruce St.
Vacuum Specialty Co., 624 1st Ave.
Yale & Towne Mfg. Co., 9 E. 40th St.
Zaubitz, August, 95-197 Cliff St.

N. Y., Niagara Falls
Acheson Graphite Co.
Carborundum Co.
Dobbie Foundry & Machinery Co.
International Acheson Graphite Co.
Star Electrode Works of National Carbon Co., Inc.
Titanium Alloy Mfg. Co.
Titanium Bronze Co., The
U. S. Light & Heat Corp.

N. Y., New Rochelle
Voland & Sons

N. Y., North Tonawanda
American District Steam Co.
Lawson, Crowell & Co.

N. Y., Olean
Luther Mfg. Co., 133 Railroad Ave.
Van Atta & Co., Inc., E. B.

N. Y., Oriskany
Waterbury & Sons Co., H.

N. Y., Oswego
Kingsford Foundry & Machine Works

N. Y., Peekskill
Naylor Bros.

N. Y., Poughkeepsie
Lane Bros. & Co.
Trussell Mfg. Co.

N. Y., Rochester
Auburn Ball Bearing Co., 22 Elizabeth St.
Bausch & Lomb Optical Co.
Boutell Mfg. Co.
*Castle Co., Wilmot, 800 St. Paul S
Cross Bros. & Co., 112-114 Mill St.
Eastman Kodak Co., 243 State St.
General Filtration Co., Inc., Cutler Bldg.
Gleason Works, 1019 University Ave.
Knowlton Co., M. D.
Pfaudler Co.
Rochester Spray Pump Co., 179 Broa way
Stromberg-Carlson-Telephone Mfg Co.
Strong & Hery Co.
Taylor Instrument Cos., 95 Ames St.
Wood Mosaic Co.
Yawman & Erbe Mfg. Co.

N. Y., Rome
Betson Plastic Fire Brick Co.
Rome Brass & Copper Co.
Rome Hollow Wire & Tube Co.

N. Y., Schenectady
General Electric Co.

N. Y., Seneca Falls
Goulds Mfg. Co.

N. Y., Syracuse
Boomer & Boschert Press Co.
Continental Can Co.

Direct Separator Co.
Dunning, W. D., 340 W. Water St.
Empire Metal Co.
Engle Mfg. Co.
Halcomb Steel Co.
Houser Elevator Co., 314 E. Water St.
Merrell-Soule Co.
Pneumelectric Machine Co.
Semet-Solvay Co.
Solvay Process Co.
Syracuse Industrial Gas Co., 206 McCarthy Bldg.
Syracuse Twist Drill Co.

N. Y., Ticonderoga
Ticonderoga Pulp & Paper Co.

N. Y., Tonawanda
National Roofing Co., 164 Fillmore Ave.

N. Y., Troy
Gurley, W. & L. E.
Hanna Mfg. Co.
McLeod & Henry Co.
Monarch Steam Blower Co.
Ross Valve Mfg. Co.
Tolhurst Machine Works
Troy Stamping Works

N. Y., Utica
Bossert Corp., The
Divine Bros. Co.
Munson Mill Machinery Co., Inc., 405 Broadway

N. Y., Watertown
Bagley & Sewall Co.
Stebbins Engineering & Mfg. Co.
Watertown Specialty Co., 112 E. Moulton St.
Watertown Thermometer Co.

N. Y., West New Brighton, Staten Island
Hunt Co., Inc., C. W.

N. Y., Woodbury
Hodges Water Still Co., Inc., 33 S. Broad St.

N. Y., Woodhaven
Chemical Equipment Co.

N. C., Charlotte
Chemical Construction Co., Trust Bldg.
Cramer, Stuart C.

N. C., Hickory
Latta-Martin Pump Co.

Ohio, Akron
Akron Metallic Gasket Co., 152 N. Union St.
Biggs Boiler Works Co., Bank and Williams Sts. and B. & O. R. R.
Burt Mfg. Co.
Goodrich Co., B. F.
Goodyear Tire & Rubber Co.
Miller Rubber Co.
Robinson Clay Product Co.
Star Rubber Co.
United States Stoneware Co.
Weeks, A. J.
Whitman & Barnes Co.
Williams Foundry & Machine Co.

Ohio, Alliance
Alliance Machine Co.
Morgan Engineering Co.
Reeves Bros. Co., 340 Rush St.

Ohio, Ashland
Faultless Rubber Co.
Myers & Bro., F. E., 900 Orange St.

Ohio, Bryan
Bryan Novelty Mfg. Co.

Ohio, Bucyrus
American Clay Machinery Co.

Ohio, Cambridge
Cambridge Glass Co.
Guernesey Earthenware Co.

Ohio, Canton
Berger Mfg. Co.
Best Light Co.
Bonnot Co.
Canton Art Metal Co.
Sun Vapor & Street Light Co.
Whiteman Mfg. Co.

Ohio, Celina
Celina Specialty Co.

Ohio, Cincinnati
Alvey-Ferguson Co.
American Laundry Machinery Co.
American Copper & Brass Works, 612 E. Front St.
American Valve & Meter Co., 2833 Springfield Ave.
Bradford Belting Co., 201 Walnut St.
Berghausen Chem. Co., The E., 307 E. 2d St.
Blymer Iron Works Co., Spring Grove Ave. and Terrace St.
Bromwell Brush & Wire Goods Co., 612 W. 6th St.
Burr Oak Belting Co., 521 Livingston St.
Cincinnati Cooperage Co., W. 6th St.
Cincinnati Gasket & Packing Co., 1546-48 Elm St.
Cincinnati Planer Co., Oakley
Cincinnati Rubber Co., Franklin Ave., Norwood
Cleveland Fabric Belting Co., 1473 W. 110th St.
Cookson Steam Specialty Co., 60-62 Central Ave.
Compressed Wood Preserving Co., 4600 Spring Grove Ave.
Crane & Breed Mfg. Co., 1227 W. 8th St.
Creaghead Engineering Co., 340 Main St.
Day Co., J. H., 1144 Harrison Ave.
Deckebach Sons Co., F. C., 129 W. Court St.
Eagle Counter & Leather Co., 414-416 8th St.

Edwards Mfg. Co., 306-336 Eggleston Ave.
Erhart, Chris., 1237-41 Sixth Ave., W.
Fosdick Machine Tool Co., Blue Rock & Apple St.
Globe-Wernicke Co., 130 E. 4th St.
Hauser-Stander Tank Co., 2118 Division St.
Hisey-Wolf Machine Co., Colerain & Marshall Sts.
Honhorst Co., Jos.
Houston-Stanwood & Gamble Co., The
Interstate Sanitation Co., 135 E. 3d St.
Jantz & Leist Electric Co.
Kiechler Mfg. Co., Wade & Denman Sts.
King Machine Tool Co.
King Powder Co., 1st National Bank Bldg.
Kirk & Blum, York and Western Sts.
Kreimer & Bro. Co., 9th and Carr Sts.
Lunkenheimer Co., Beekman and Waverly Sts.
Lynn Superior Co., 3250 Spring Grove Ave.
Macleod Co., 2232 Bogen St.
Mitchell Co., P. R., 3859 Clifton Ave.
Neil & Smith Electric Tool Co., 120-122 E. 6th St.
Obermayer Co., S., 647 Evans St.
Powell Co., The Wm., 2521 Spring Grove Ave.
Queen City Exhaust Blow Pipe Co., 423 York St.
Reedy Co., H. J.
Standard Electric Tool Co.
Taylor Sons Co., Chas.
Triumph Ice Machine Co.
Tudor Boiler Mfg. Co., 715 E. 3d St.
Van Dusen Co., E. W., 1428 E. 2d St.
Vulcan Copper Works Co., 122 Sycamore St.
Warner Elevator Mfg. Co.
Williams Valve Co.
Wocher & Son, Max, Cor. 9th and 6th Aves.

Ohio, Cleveland

Aluminum Castings Co., 6205 Carnegie Ave.
American Shipbuilding Co., Washington and Elm Aves.
Anderson Co., V. D., W. 96th St.
Atlas Car & Mfg. Co., Ivanhoe Road
Austin Powder Co., Rockefeller Bldg.
Bartlett & Snow Co., C. O., French and Winter Sts.
Bishop, Babcock, Becker Co., The, 49th and Hamilton Sts.
Bullock Mfg. Co., T. H., 1577 Columbus Road
Brown Hoisting & Machinery Co., 4403 St. Clair St.
Buckeye Brass & Mfg. Co., 1807 Columbus Road
Case Hardening Service Co.
Central Brass Mfg. Co., 6203 Cedar Ave.
Cleveland Blow Pipe & Mfg. Co.
Cleveland Brass Mfg. Co., 4606-4626 Hamilton Ave., N. E.
Cleveland Machine Tool Works, 3213-3225 Superior Ave.
Cleveland Rubber Co., Lisbon Road
Cleveland Store Fixture Co.
Cleveland Twist Drill Co.
Cleveland Wire Spring Co.
Cleveland Pneumatic Tool Co., 6410 Hawthorne Ave.
Consumers Rubber Co., 829 Superior Ave.
Cummer & Son Co., F. D., 413 The Arcade
Dangler Stove Co., 5017 Perkins Ave.
Dyer Co., 2033 Euclid Ave.
Electric Controller & Mfg. Co., 2700 E. 79th St.
Elwell Parker Electric Co.
Electric Products Co., 10514 Dupont Ave., N. E.
Euclid Glass Division National Lamp Works, of General Electric Co.
Fanner Mfg. Co., W., 25th West of Brooklyn Bridge
Gas Machinery Co., 1900 Euclid Ave.
Globe Machine & Stamping Co.
Harshaw Fuller & Goodwin Co., Electric Bldg.
Hill Clutch Co.
Kilby Mfg. Co., 4623 Lakeside Ave.
Lakewood Engineering Co., Berea Rd.
Lennox Chemical Co., The, 1201 E. 55th St.
Lincoln Electric Co.
Loew Mfg. Co., 9001 Madison Ave., N. W.
Lucas Machine Tool Co., E., E. 99th St. and N. Y. C. R. R.
Mechanical Rubber Co.
Meriam Co., 1514 Prospect Ave., S. E.
Monarch Brass Co., 4607 Payne Ave.
National Carbon Co., Madison and Highland Aves.
National Refining Co., Rose Bldg.
Ohio Blower Co.
Ohio Chemical & Mfg. Co., 1199 Marquette at L. S. & M. S. Railway
Osborn Mfg. Co., 5401 Hamilton Ave., N. E.
Pequoz Electric Co.
Phoenix Ice Machine Co., 2711 Church Ave.
Russ Co., 5700 Walworth Ave.
Sawyer Belting Co.
Standard Sand & Machine Co.
Standard Tool Co.

Standard Welding Co., W. 73d St. and N. Y. C. Tracks
Strong, Carlisle & Hammond Co., 336 Frankfort St , N. W.
Steel Improvement & Forge Co., 5000 Winsor Ave.
Steel Products Co.
Strong, Carlisle & Hammond Co.
Tyler Co., W. S., Superior Ave. and 36th St.
Union Engineering Co., 1616 Columbus Road
Union Paper & Twine Co., 127 St. Clair Ave., N. W.
United States Air Compressor Co., 6526 Carnegie Ave.
Van Dorn Electric Tool Co.
Van Dorn Iron Works Co.
Warner & Swasey Co.
Wellman-Seaver-Morgan Co., 7000 Central Ave.

Ohio, Columbiana
Columbiana Boiler Co.

Ohio, Columbus
Jeffrey Mfg. Co., 904 N. 4th St.
Kilbourne & Jacobs Mfg. Co.
Laboratory Supply Co., 41 E. Chestnut St.
Ralston Steel Car Co.
Rudolph, Philip J., 190 W. 1st Ave.

Ohio, Conneaut
Conneaut Can Co.

Ohio, Dayton
Barney & Smith Car Co.
Buckeye Boiler Co., 1617 McLain St.
Buckeye Iron & Brass Works
Electro Chemical Co., 111 W. Court St.
International Clay Machinery Co.
Platt Iron Works Co.
Reynolds & Reynolds Co., The

Ohio, Defiance
American Steel Package Co.
Defiance Box & Coop Co.

Ohio, Delphus
Delphus Co.

Ohio, East Akron
Knight, Maurice A.

Ohio, East Liverpool
Patterson Foundry & Machine Co.

Ohio, Elyria
Elyria Enameled Products Co.

Ohio, Fostoria
Fostoria Glass Specialty Co.

Ohio, Fremont
Christy Knife Co.
Simple Account Sales Book Co.

Ohio, Hamilton
Hamilton Copper & Brass Works
Long & Alstatter Co.

Ohio, Kent
Falls Rivet Co.

Ohio, Lexington
Smith Gas Engineering Co.

Ohio, Lockland
Carey Mfg. Co., Philip
Fox Paper Co.
Gedge Gray Co.

Ohio, Logan
Logan Pottery Co.

Ohio, Mansfield
Phoenix Electric Co.

Ohio, Marion
Marion Steam Shovel Co.
Osgood Co.

Ohio, Middletown
American Rolling Mill Co.
Wrenn Paper Co.

Ohio, Mt. Gilead
Hydraulic Press Mfg. Co., The

Ohio, Mt. Vernon
Chapman Engineering Co.

Ohio, Nelsonville
Nelsonville Foundry & Machine Co.

Ohio, Newark
Heisey & Co., Inc., A. H.

Ohio, New Lexington
Star Mfg. Co.

Ohio, New London
Arnold-Creager Co.

Ohio, Niles
Standard Boiler & Plate Iron Co.

Ohio, Oak Hill
Pyro Clay Products Co.

Ohio, Piqua
Piqua Blower Co., 810 S. Downing St.

Ohio, Plymouth
Fate Co., J. D.

Ohio, Salem
Deming Co.

Ohio, Sandusky
American Crayon Co.
Sandusky Foundry & Machine Co.

Ohio, Sebring
Limoges China Co.

Ohio, Shelby
Ohio Seamless Tube Co.

Ohio, Sidney
Sidney Elevator Mfg. Co.

Ohio, Springfield
Bauer Bros. Co.
Lagonda Mfg. Co., 1809 Sheridan Ave.
Robbins & Myers Co.
Safety Emery Wheel Co.
Eidgely Trimmer Co.

Ohio, Steubenville
Gill Bros. Co.

Ohio, Tiffin
Webster Mfg. Co.

Ohio, Toledo
Beckman Co., L., 318 Adams St.
Gendron Wheel Co.
Gogel Mfg. Co.
Haughton Elevator & Machine Co.
Kent-Owens Machine Co.

Libbey Glass Co.
Ophthalmoscope Co.
Owens Bottle Machine Co.
Toledo Drill & Tool Co.
Toledo Scale Co.
Ohio, Urbana
Desmond-Stephen Mfg. Co.
Ohio, Wadsworth
Ohio Injector Co.
Ohio, Warren
Warren City Tank & Boiler Co.
Ohio, Youngstown
General Fireproofing Co.
Republic Rubber Co.
Todd Co., Wm.
Wagenhorst & Co., J. H., 704 Dollar Bank Bldg.
Youngstown Engineering Co.
Youngstown Sheet & Tube Co.
Ohio, Zanesville
Ohio Pottery Co.
Oregon, Portland
Harris Ice Machine Works, Inc., 174 E. Water St.
Leupold & Voelpel, 501 Phoenix Bldg.
National Tank & Pipe Co., 275 Oak St.
North West Blow Pipe Co.
Pa., Allentown
Allentown Flint Bottle Co.
Garnet Co., Geo. H.
Traylor Engineering & Mfg. Co.
Pa., Ambler
Keasby & Mattison
Pa., Bangor
Bangor National Slate Co.
Bangor Slate Mfg. & Supply Co.
Flory Mfg. Co., S.
Hammann Slate Co.
Pa., Beaver Falls
Keystone Driller Co.
Union Drawn Steel Co.
Pa., Bethlehem
Bethlehem Steel Co.
Pa., Berwyn
American Bronze Co.
Pa., Braddock
Consolidated Expended Metal Companies
Pa., Braeburn
Braeburn Steel Co.
Pa., Bridgeport
Diamond State Fibre Co.
Harvey Hubbell, Inc., State St. and Bostwick Ave.
Summerill Tubing Co.
Pa., Carbondale
American Welding Co.
Carbondale Calcium Co.
Carbondale Instrument Co.
Carbondale Machine Co.
Cross Engineering Co.
Griebel Instrument Co.
Hendrick Mfg. Co., 39-75 Dundaff St.
Pa., Catasauqua
Lehigh Car, Wheel & Axle Works
Pa., Chester
Wetherill & Co., Inc., Robert
Wirz, Inc., A. H.
Pa., Coatesville
Coatesville Boiler Works
Lukens Iron & Steel Co.
Ridgway & Son Co., Craig
Pa., Connellsville
Riverside Metal Refining Co.
Pa., Conshohocken
Wood Mfg. Co., John
Pa., Corry
Trill Indicator Co.
Pa., Darby
Roberts Filter Mfg. Co.
Pa., Du Bois
Vulcan Soot Cleaner Co.
Pa., Easton
American Slate Co.
Easton Cart Construction Co., 200 4th St.
Pluto Powder Co.
Pa., East Bangor
East Bangor Consolidated Slate Co.
Pa., East Downingtown
Downingtown Mfg. Co.
Pa., East Pittsburgh
Westinghouse Electric & Mfg. Co.
Pa., Ellwood City
Mathews Gravity Carrier Co.
Pa., Emporium
Cameron Powder Mfg. Co.
Keystone National Powder Co.
Pa., Erie
Advance Mfg. Co.
American Sterilizer Co.
Continental Rubber Works
Erie-Buffalo Tube Co., 1227 W. 18th St.
Erie Car Works, 17th and Raspberry Sts.
Erie City Mfg. Co.
Erie Foundry Co.
Exhibition Show Case Co.
Hays Mfg. Co.
Jarecki Mfg. Co.
Watson, N. A., 2016 State St.
Williams Co., G. H.
Pa., Franklin
Colburn Machine Tool Co.
Franklin Mfg. Co.
Pa., Fullerton
Lehigh Foundry Co.
Pa., Greensburg
Kelly & Jones Co.
Memphis Steel Construction Co.
Pa., Hamburg, Berks Co.
Hamburg Boiler Works
Pa., Harrisburg
Jackson Mfg. Co.

Pa., Hollidaysburg
McLanahan-Stone Machine Co.
Pa., Homestead
Lawson Mfg. Co.
Pa., Jeannette
Jeannette Glass Co.
Pennsylvania Rubber Co.
Pa., Koppel
Orenstein-Arthur Koppel Co.
Pa., Lancaster
Mircs Fuel Oil Equipment Co.
Pa., Macungie
Macungie Brass & Mfg. Co.
Pa., Malvern
Bishop & Co., J., Platinum Works
Pa., Manheim
Hershey Machine & Foundry Co.
Pa., Mechanicsburg
The Scientific Instrument & Electrical Machine Co.
Pa., Midland
Treadwell Construction Co.
Pa., Milton
Milton Mfg. Co.
Pa., Monaca
Pittsburgh Tool Steel Wire Co.
Pa., Muncy
Sprout, Waldron & Co.
Pa., New Brighton
Sherwood Bros. Co.
Standard Specialty & Tube Co.
Pa., New Castle
Penn Engineering Works
Pa., Oil City
Pennsylvania Cooperage Co.
Reid Gas Engine Co., Joseph
Pa., Philadelphia
Abrasive Co., Bridesburg
Albro-Clem Elevator Co., 7th St. and Glenwood Ave.
Ajax Metal Co., 48 Richmond St.
Alexander Bros., 414 N. 3d St.
American Insulating Machinery Co., Inc., Fairhill and Huntingdon Sts.
American Manganese Bronze Co., Rhawn and Hegeman Sts.
American Pulley Co., 4200 Wissahickon Ave.
American Water Softener Co., 10th and Chestnut Sts.
Baeuerle & Morris, 932 N. Front St.
Barber Asphalt Paving Co., Land Title Bldg.
Beaumont Co., R. H., Drexel Bldg.
Belfield Co., H., 435 N. Broad St.
Berger Bros. Co., 231 Arch St.
Bernstein Mfg. Co., 3d and Allegheny Ave.
*Biddle, James G., 1211-13 Arch St.
*Boekel & Co., Wm., 516-518 Vine St.
Bond Co., Charles
Brauer & Son, J., 129 Arch St.
Brill Co., J. G., 62d St. and Woodland Ave.
Brown Instrument Co., Wayne and Roberts Aves.
Burk & Co., Wm. B., 534 Arch St.
Butterworth & Sons Co., H. W., 2415 E. York St.
Caloris Co., 2110 Allegheny Ave.
Cambria Steel Co., Widener Bldg.
Challenge Machine Co., Inc., 5118 Springfield Ave.
Chambers Bros. Co., 52d and Media Sts.
C. J. Mfg. Co., 3421 N. 5th St.
Clarke Can Co., 12th and Fitzwater Sts.
Covel Belting Co.
Cramp & Sons Ship & Engine Building Co., Wm., Richmond and Norris Sts.
Cresson-Morris Co., 18th and Allegheny Ave.
Darby & Sons Co., Inc., Edward, 233-235 Arch St.
*Dean, J. Atlee, 5420 Baltimore Ave.
Dienelt & Eisenhardt, Inc., 1304 N. Howard St.
D'Olier Centrifugal Pump & Machine Co., Morris Bldg.
Drueding Bros. Co., 5th and Master Sts.
Duemier, G. Frank, 837 Sanger St.
Electric Service Supplies Co., 17th and Cambria St.
Electric Storage Battery Co., Allegheny Ave. and 19th St.
Electric Tachometer Corp., Perry Bldg.
Electro-Chemical Supply & Engineering Co., 1207 Stephen Girard Bldg.
Endura Mfg. Co., 63d St. and Eastwick Ave.
Enterprise Mfg. Co.
Espen-Lucas Machine Works, Front St. and Girard Ave.
Eynon-Evans Mfg. Co., 15th and Clearfield Sts.
Fairmount Glass Works, 828 N. 23d St.
Faltermayer Bros., 2741 Germantown Ave.
Feidt & Co., Geo. D., 230 S. 7th St.
Foote Mineral Co., Inc., 109 N. 19th St.
Fox & Sons, Inc., H. C., Schuylkill Ave. and Catherine St.
French & Co., Sam'l H., 4th and Callowhill Sts.
Gefeover & Son, Inc., G.
General Scientific Equipment Co., 2000 Market St.
Gillinder & Sons, Tacony and Devereaux Sts.
Globe Automatic Sprinkler Co., 2035 Washington Ave.

Green & Sons, Robert M., 1413 Vine St.
Greene Paper Co., 5014 Market St.
Hagstoz & Son, T. B., 709 Sansom St.
Haines, Jones & Cadbury Co., 1136 Ridge St.
Hand & Sons Co., John E., 224 Walnut St.
Harrison Safety Boiler Works, 17th and Allegheny Sts.
Harrison Works, 35th and Grays Ferry Road
Haslett Spiral Chute Co., 1937 W. Tioga St.
Hero Mfg. Co.,
Himmelein & Bailey, 248 Chestnut St.
Hocker Co., G. R., 1840 S. Camac St.
Hodges Water Still Co., Pennsylvania Bldg.
Houghton & Co., 240 W. Somerset St.
Hydro Mfg. Co., 320 Bullitt Bldg.
Ivins Tube Works, Ellwood, Oak Lane Station
Janney, Steinmetz Co.
Jessup & Moore Paper Co., 28 S. 6th St.
Keystone Emery Mills, 4329 Paul St.
Klemm & Co., 132 N. 5th St.
Kutztown Foundry & Machine Co., Morris Bldg.
Large-Dail Mfg. Co., 114 N. 13th St.
Lavino & Co., E. J., Bullitt Bldg.
Leeds & Northrup Co., 4901 Stenton Ave.
Levick & Sons Co., 106 S. 13th St.
Logan Iron & Steel Co., Morris Bldg.
Lonergan Co., J. E., 211 Race St.
Loomis-Manning Filter Mfg. Co., 1421-1455 S. 37th St.
Lupton & Sons Co., David
Main Belting Co.
Maris & Co., J. M.
Merchant & Evans Co., 2019-2035 Washington Ave.
Messer Mfg. Co., 121 N. 7th St.
Monarch Mfg. Works, 3129 Emery St.
Moore & White Co.,
North American Smelting Co., 9th and Thompson Sts.
Oat & Sons, Jos., 230 Quarry St.
Oil & Waste Saving Machine Co., 1509 Real Estate Trust Bldg.
Olsen Testing Machine Co., Tinius, 500 N. 12th St.
Ott, Geo. F., 209 Buttonwood St.
Otto Gas Engine Works
Pancoast Co., Henry B., 243-245 S. 3d St.
Parker Co., F. T., 232 Chestnut St.
Paxson Co., J. W., 1021 N. Delaware Ave.
Pennsylvania Crusher Co., Stephen Girard Bldg.
Pennsylvania Flexible Metallic Tubing Co., N. E. Cor. Broad and Race Sts.
Pennsylvania Steel Co.
Pennsylvania Wire Glass Co., 915 Penn Bldg.
Perfection Bottle Stopper Co.
Philadelphia Drying Machinery Co., 6721 Germantown Ave.
Philadelphia Pipe Bending Co.
Philadelphia Roll & Machine Co., S. 23d and Washington Ave.
Philadelphia Thermometer Co., 9th and Arch Sts.
Philadelphia Tramrail Co., Front and Tusculum Sts.
Phoenix Iron Co.
Porter & Co., C. B., 128 N. 2d St.
Precision Thermometer & Instrument Co., 1434 Brandywine St.
Quaker City Rubber Co., 629 Market St.
Queen-Gray Co., Inc., 618 Chestnut St.
Quimby Engineering Co., 450 N. 10th St.
Remmers & Sons, B., Bourse Bldg.
Remmey Son Co., Richard C., Hedley and Delaware River Bldg.
Rhoades & Sons, J. E., 12 N. 3d St.
Riehle Bros. Testing Machine Co., 1424 N. 9th St.
Roentgen Mfg. Co., 1210 Race St.
Ross-Tacony Crucible Co., Robbins and Mulner Sts.
Rue Mfg. Co., 228 Cherry St.
Savill's Sons, Thos., 1310 Wallace St.
Schaum & Uhlriger, Inc., Cor. Glenwood Ave. and 2d St.
Schutte & Koerting Co., 12th and Thompson Sts.
Seidel Inc., R. B., 1322 Callowhill St.
Sellers & Co., Inc., Wm., 1600 Hamilton St.
Sharpless Specialty Co.
Smith, Kline & French Co.
Southwark Foundry & Machine Co.
Specialty Engineering Co., Allegheny and Trenton Aves.
Steele Glass Co., 622 Locust St.
Stokes Machine Co., F. J., 17th and Cambria Sts.
Supplee-Biddle Hardware Co.
Taylor, Inc., Robert J., 19th and Callowhill Sts.
*Thomas Co., Arthur H., 238 W. Washington Square
Thomson-Levering Co., 323 Arch St.
Thwing Instrument Co., 3339 Lancaster Ave.
Tilgham-Brooksbank Sand Blast Co.
Troemmer, Henry, 911 Arch St.
Uniflow Boiler Co., Inc., 2 S. 15th St.

United Gas Improvement Co., 1514 S. Broad St.
Watts Sons, John M., 54 N. 2d St.
Wheeler Co., C. H.
Wheeler Mfg. Co., C. H.
Whitall-Tatum Co., 410 Race St.
Williams-Brown & Earle, 918 Chestnut St.
Wirt Electric Specialty Co., Armat and Lena Sts.
Wood & Co., R. D., 400 Chestnut St.
Woolford Wood Tank Mfg. Co., 1429 Chestnut St.
Wyeth & Bro., J., Inc., 11th and Washington Ave.

Pa., Pittsburgh

Aluminum Co. of America, Oliver Bldg.
American Sheet & Tin Plate Co., Frick Bldg.
Armstrong Cork Co.
Armstrong Cork & Insulation Co., 122 24th St.
Asbestos Protected Metal Co., 1st National Bank Bldg.
Bachrach Industrial Instrument Co., 422 1st Ave.
Bailey Reflector Co., 514 1st Ave.
Basic Products Co., 2119 Oliver Bldg.
Bonar & Co., James, 502 Park Bldg.
Cadman Mfg. Co., A. W., 2814-2816 Smallman St.
Carbo-Hydrogen Co.
Carbon Steel Co.
Carnegie Steel Co.
Clark Car Co., Oliver Bldg.
Coal & Coke By-Products Co., 421 Wood St.
Crucible Steel Co. of America, 30th and Smallman Sts.
Damascus Bronze Co., 928 South St.
Doubleday-Hill Electric Co., 721 Liberty Ave.
Draeger Oxygen Apparatus Co., 422 1st Ave.
Edgewater Steel Co.
Eichleay Co., John Jr., S. 20th and Wharton Ave.
Elliott Co., 6915 Susquehanna St.
Elliott Co., B. K., 130 6th St.
Epping-Carpenter Pump Co., 43d St. and Allegheny R. R.
Garrison Foundry Co., 901 Bingham St.
Gem Mfg. Co., 1229-1243 Goebel St., N. S.
Gibbs Instrument Co., Highland Bldg.
Gulf Refining Co., Frick Bldg.
Gwynn Gas Burner & Engineering Co., 713-714 Empire Bldg.
Hagan Co., George J., 401 Peoples Bank Bldg.
Hamilton, J. F. & A.
Harbison-Walker Refractories Co., Farmers Bank Bldg.
Homestead Valve Mfg. Co., P. O. Box 1754
Hunter Saw & Machine Co., 57th and Butler Sts.
Jones & Laughlin Steel Co.
Keytsone Bronze Co., 39th and A. V. R. R.
Keystone Elec. Telephone Co., 614 Smithfield Ave.
Koppers Co., H., Union Ave.
Lawrenceville Bronze Co., 3036 Penn Ave.
Liberty Mfg. Co., 6907 Susquehanna St.
Macbeth-Evans Glass Co.
Mackintosh, Hemphill & Co., 12th and Etna Sts.
Marshall Foundry Co., 28th and Railroad
McCullough-Dalzell Crucible Co.
McLean Co.
Monroe & Sons Mfg. Corp., 23d and Smallman Sts.
National Fire Proofing Co., Fulton Bldg.
National Tube Co., 1902 Frick Bldg.
Oliver Iron & Steel Co., S. 10th and Muriel Ave.
Otto Gas Engine Works
Pittsburgh Can Co.
Pittsburgh Coal Washer Co., 812 Fulton Bldg.
Pittsburgh Crushed Steel Co., 61st St. and A. V. Ry.
Pittsburgh Filter Mfg. Co.
Pittsburgh Gage & Supply Co.
Pittsburgh Steel Co., Frick Bldg.
Pittsburgh Steel Products Co.
Pittsburgh Thermoline Co., S. 20th and Wharton Sts.
Pittsburgh Valve, Foundry & Const. Co.
Pressed Steel Car Co., Farmer's Bank Bldg.
Republic Chemical Co., Neville Island
Rosedale Foundry & Machine Co., Columbus and Preble Ave., North Side
Rudd Mfg. Co.
Ruemmeli Dawley Mfg. Co., 3900 Chouteau Ave.
Sauer Power Generating Co., 5115-5119 Rosetta St.
Scaife & Sons Co., Wm. B., 21 1st Ave.
Scientific Materials Co., 711-719 Forbes St.
Standard Sanitary Mfg. Co.
Standard Scale & Supply Co., 1631 Liberty Ave.
Sterritt-Thomas Foundry Co., 32d and Smallman Sts.

Summers Steel Car Co., Oliver Bldg.
Tate, Jones & Co., Inc., Empire Bldg.
United Engineering & Foundry Co., Farmer's Bank Bldg.
U. S. Glass Co., S., 9th and Bingham Aves.
U. S. Steel Corp.
Vanadium Metal Co., Vanadium Bldg.
Wall P. Mfg. Supply Co., 705 Preble Ave.
Westinghouse Air Brake Co.

Pa., Pittston
Delahunty Dyeing Machine Co.

Pa., Pottstown
Glasgow Iron Co.
Wilbraham-Green Blower Co.

Pa., Pottsville
Eastern Steel Co.

Pa., Reading
Carpenter Steel Co.
Columbia Cutlery Co.
Reading Iron Co.
Textile Machine Works
Willson & Co., T. A.

Pa., Ridgway
Ridgway Dynamo & Engine Co.

Pa., Rochester
Pittsburgh Grinding Wheel Co.

Pa., Schuylkill Haven
Rowland, Samuel

Pa., Scottdale
Electric Water Sterilizer Co.

Pa., Scranton
Black Horn Sales Co.
Everhart Brass Works
McClave-Brooks Co.
Technical Supply Co.

Pa., Sharon
Pennsylvania Tank Car Co.
Petroleum Iron Works Co.
Pressed Steel Products Co.

Pa., Slatington
Genuine Washington Slate Co.
Monarch Black Board & Structural Slate Co.
Provident Slate Co.

Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Bethlehem Steel Co.

Pa., Tamaqua
Tamaqua Mfg. Co.

Pa., Titusville
Titusville Iron Co.

Pa., Valley Forge
Ehret Magnesia Mfg. Co.

Pa., Warren
Hammond Iron Works
Struthers-Wells Co.
Warren City Tank & Boiler Works

Pa., Washington
Highland Glass Co.

Pa., Waynesboro
Frick Co., Inc.

Pa., West Chester
Sharples Separator Co.
Sharpless Specialty Co., The

Pa., Wilkes-Barre
Hazard Mfg. Co.

Pa., Williamsport
Darling Pump & Mfg. Co., Ltd.
Keeler Co., E.
Maryland Flint Co.
Valley Iron Works

Pa., York
Foreman Systems
Pullman Ventilator Corp.
Ruggles-Coles Engineering Co.
Steacy-Schmidt Mfg. Co.
York Electric & Machine Co., 30-34 N. Penn St.
York Mfg. Co.

R. I., Bristol
National India Rubber Co.

R. I., Providence
American Emery Wheel Co.
Brown & Sharp Mfg. Co.
Builders Iron Foundry
Clason Architectural Metal Works, Inc., 428 Kinsley St.
Davol Rubber Co.
D. & W. Fuse Co.
General Fire Extinguisher Co., 275 W. Exchange St.
Hill Mfg. Co., James
Household Cabinet Works
Narragansett Machine Co.
National Gas Furnace Co.
New England Butt Co.
New England Ventilating & Heating Co., 926 Manton Ave.
Salisbury Mfg. Co.
Textile Finishing Machinery Co., 81 Exchange Pl.
Tillotson Humidifier Co.
U. S. Gas Furnace Co.
Wall Co., A. T., 162 Clifford St.

Scotland, Glasgow
Blair, Campbell & McLean, Ltd., Woodville St., Govan

S. C., Charleston
Valk & Murdoch Co.

Tenn., Chattanooga
American Lava Co.
Chattanooga Wheelbarrow Co.
Frictionless Metal Co.

Tenn., Jackson
Jackson Fire Brick Co.

Tenn., Knoxville
Oliver Mfg. Co., Wm. J.
Savage Co., W. J.

Tenn., Memphis
Memphis Blow Pipe Co.

Tenn., Nashville
Harris Municipal Garbage Incinerator & Steam Generator Co., 65 Life and Casualty Bldg.
Phillips & Butteroff Mfg. Co.

Tex., Dallas
Murray Co.
Tex., Houston
Shannon, G. S.
Utah, Salt Lake City
Filter Fabrics Co., The, Felt Bldg.
Keller Mfg. Co., G. P.
Kelly Filter Press Co.
Salt Lake Hardware Co.
United Filters Corp.
Utah Fire Clay Co.
Vt., Bellows Falls
Vermont Farm Machinery Co.
Vt., Burlington
Champlain Mfg. Co.
Vt., Montpelier
U. S. Clothes Pin Co.
Vt., Wells River
Adams Paper Co.
Va., Richmond
Albemarle Paper Mfg. Co.
Va., Stillwater
Impervious Paper Co.
Va., Richmond
Parker & Son Co., Joseph
Richmond Engineering Co., 12 S. 8th St.
Standard Paper Mfg. Co.
Tredagar Co.
Wash., Everett
Everett Pulp & Paper Co.
Wash., Seattle
Denny-Renton Clay & Coal Co.
Seattle-Astoria Iron Works, 601 Myrtle St.
Seattle Brass Co.
Seattle Car & Foundry Co., Alaska Bldg.
Wash., Spokane
Armstrong Machinery Co., 3201-3219 E. Riverside St.
Fossett Co., C. M.
Wash., Tacoma
Williams, C. W.
W. Va., Fairmont
Fairmont Mining Machinery Co.
W. Va., Grafton
Hefner & Maysilles
W. Va., Morgantown
Union Stopper Co.
W. Va., Wheeling
Central Glass Co.
Williams' Improved Stretcher Co., 1202-04 Water St.
Wis., Appleton
Combined Locks Paper Co.
Wis., Ashland
Bretting Mfg. Co., C. G.
Wis., Cudahy
Power & Mining Machinery Co.
Wis., Jamesville
Franklin, Taylor Co.
Wis., Kwaunee
Kewaunee Mfg. Co.
Wis., Kohler
Kohler Co.
Wis., LaCrosse
Benton Electric Co.
Wis., Madison
Gisholt Machine Co.
Northern Water Softener Co.
Wis., Manitowoc
Manitowoc Aluminum Co.
Manitowoc Boiler Works
Manitowoc Engineering Works
Wis., Marinette
Marinette & Menominee Box Co.
Wis., Milwaukee
Allis-Chalmers Mfg. Co.
American Machinery & Construction Co.
Chain Belt Co., 734 Park St.
Cutler-Hammer Mfg. Co., 12th St. and St. Paul Ave.
Davis Mfg. Co., 57th Ave. and Mitchell St.
Dings Magnetic Separator Co., 333 South St.
Erwin Mfg. Co.
Geuder, Paeschke & Frey Co.
Industrial Controller Co., 900 Greenbush St.
Johnson Service Co., 153 Michigan Ave.
Kearney & Trecker Co.
Kerner Incinerator Co.
Kramer Oil Co., W. J.
Mechanical Appliance Co.
Milwaukee Bag Co., 206 S. Water St.
Milwaukee Boiler Co., 220 Oregon St.
Milwaukee Locomotive Mfg. Co.
National Brake & Electric Co.
Norberg Mfg. Co.
Pawling & Harnischfeger Co.
Pressed Steel Tank Co.
Richardson-Phoenix Co., 126 Reservoir Ave.
Sommers & Sons Co., Galena and 31st Sts.
Twentieth Century Machinery Co., M. & M. Bank Bldg.
Vilter Mfg. Co., 824 Clinton St.
Voss Co., Herman, 603 E. Water St.
Wisconsin Foundry Co., 1138 32d St.
Wis., Oshkosh
Ransom Mfg. Co.
Wis., Racine
Phoenix Automatic Filter Co.
Wis., South Milwaukee
Bucyrus Co.
Wis., Superior
Superior Iron Works Co.
Wis., Two Rivers
Hamilton Mfg. Co.
Wis., Watertown
Dornfield Iron Works
Wis., Wausau
Wausau Abrasives Co.

V. INDUSTRIAL CHEMISTS AND CHEMICAL ENGINEERS

I. ANALYTICAL AND CONSULTING CHEMISTS

Ala., Birmingham
Bliss, A. R. and Olive, A. H., 1923 Avenue F.
Burnham, H. J., 312 Empire Bldg.
Hancock, David, 3d floor Potter Bldg.
Picard Laboratories, 1911 1st Ave.
Pittsburgh Testing Laboratory, 216 Clark Bldg.

Ala., Montgomery
Battle Laboratory, 103 S. Court St.
Burke, J. D., 28 N. Court St.

Ariz., Tucson
Brinton, Paul H. M-P.

Ark., Fort Smith
Industrial Laboratories, Inc.

Cal., Berkeley
Cutter Laboratory, Inc., 6th St.
Sebastian, R. L., 1919 5th St.

Cal., Los Angeles
Baverstock & Payne, 223 W. 1st St.
Chace, E. M., 142 S. Anderson St.
Gooch, G. W., 322-23 Copp Bldg.
Griffin-Hersey Laboratories, 754 S. Los Angeles Ave., Room 905
Herman, John, 514 S. Los Angeles St.
Knudsen, C. F. C., 1963 Santee Ave.
Los Angeles X-Ray Laboratories, 307 S. Hill St., Room 800
Perez, R. A., 120 N. Main St.
Sirch Electrical & Testing Laboratories.
Smith, Emery & Co., 245 S. Los Angeles Ave.
Snowden, R. R., 320 Stimson Bldg.
Tatarian & Pratt, corner 1st and Main Sts.
Walker, Mark, 211 W. 1st St.
Wassermann Pacific Laboratories, 1012 Hollingsworth Bldg.
Watts, Wm. L., 803 N. Bonnie Brae St.
Wrana, King & Co., Inc., 822 E. 3d St.

Cal., Oakland
Benzinger, Richard, 1314 Market St.
Curtis & Tompkins, 108 Front St.
Dugan, H. F., 715 50th Ave.
Gibson, Walter L., 824 Washington St.
Miller, M. R., 944 E. 14th St.
Pacific Chemical Laboratories, 577 14th St.
Pacific Wasserman Laboratory, Physicians Bldg.
Schaefer, Pauline, 214 Physicians Bldg.
Shingle, L. C., 532 15th St.
Smith, Emery Co., Inc., 651 Howard St.
Standard Laboratories, 1228 Myrtle Ave.
Western Laboratories, 24th and Broadway

Cal., San Francisco
Beckman & Linden Eng. Corp., Balboa Bldg.
Bergman, F. G., 3700 California Ave.
Best & Glebovitch, Balboa Bldg.
Butler Cereal Laboratories, 149 Cal. St.
Cross & Co., 4273 California Ave.
Crosscup, I. O., 24 California Ave.
Cruess, Wm. V., F. C. L. Bldg., University of California.
Curtis & Tompkins, 331 Cal. St.
Dasher, C. H., 337 12th Ave.
De Coninck, Frank, 333 11th Ave.
Drake, Bryant S., 5830 Colby St.
Dugan, H. F., 1170 Suter Ave.
Eaton Laboratories, 340 Sansome St.
Fanda, C. O., 303 Columbus Ave.
Flint, J. H., 344 14th St.
Forbes Chemical Co., Crocker Bldg.
Gaskill, G. W., 935 Market St.
Gould & Ash, 216 Pine St.
Green, F. T., 500 Devisadero St.
Hamilton, Beauchamp Woodworth, 419 The Embarcadero
Hanks, A. A., 630 Sacramento St.
Hunt & Co., R. W., 251 Kearny St.
Herb, Joseph, 3866 19th St.
James, G. A., 28 Belden Pl.
Kawin Co., Chas. C., 693 Mission St.
Kormann Scientific Laboratory, 604 Mission St.
Lippman & Sugarman, 135 Stockton St.
Luckhardt Co., C. A., 53 Stevenson St.
Miller, H. E., 519 California Ave.
Noble & Co., R. E., Humboldt Bank Bldg.
Pacific Chemical Laboratories, 417 Montgomery St.
Pacific Wassermann Laboratories, 501-506 Pacific Bldg.
Price & Son, Thos., 503 Market St.
Rieber Laboratories, 121 Second St.

Tales, J. K., 165 Jessie St.
Smith, Emery & Co., 651 Howard St.
West, Nicholas R., Laboratory, 463 Folsom St.
White, H. M., 516 Suter St.

Canada, Montreal
Canadian Inspection & Testing Laboratories, Ltd.

Canada, Quebec
MacKinnon Holmes & Co., Drummond St., Sherbrooke

Colo., Pueblo
Clark & Stone

Colo., Denver
Root & Simpson, 1744 Broadway.

Conn., Bridgeport
Bridgeport Testing Laboratories, 398 John St.
D'Esopo, Michael A., 91 Ann St.
Ferry, Charles, 435 Washington Ave.
Souther Eng. Co., Henry, Low St.
Wheeler, S. P., 153 John St.

Conn., Hartford.
Hartford Laboratory Co., 112 High St.
Newlands Sanitary Laboratory, 11 Laurel St.

Conn., New Haven
Collins, Paul, 746 Chapel St.

Conn., New Britain
Davenport & Keeler, Inc., 441 Arch St.

Conn., Stamford
Borg Laboratories, 539 Main St.

Conn., Stratford
Peck, T. E.

Del., Wilmington
Ferrell, George F., 223 Poplar St.
Miller, W. P. Co., 809 French St.
Ortiz Analytical & Testing Laboratories, 510½ Market St.
Pipes, W. Henri, 926 French St.
Smith, Frank Roop, 508 King St.

D. C., Washington
Bailey, R. K., 4130 5th St., N. W.
Bigelow, W. D., 1739 H St., N. W.
Bitting, A. W., 1739 H. St., N. W.
Cantwell, T., Stanhope Apts.
Coleman, Mrs., J. P. H., 1234 U St., N. W.
Cunningham, S. H., 2103 K St., N. W.
Dairy Laboratory, 700 H St., N. E.
Fitzgerald, F. F., 1739 H St.
Fuller, H. C., 19th & B Sts., N. W.
Heinrich Technical Laboratories, Fidelity Bldg., Tacoma
Helphenstein, R. K., 606 F St., N. W.
Hygienic Laboratory, 25th & E Sts. N. W.
Institute of Industrial Research, 19th & B Sts.
Loomis, Henry M., 1739 H St.
McCambridge Moore & Co., Inc.
McElroy, K. P., 711 G St., N. W.
Mainzinger, H. O., Woodward Bldg.
Meyer, T., Warder Bldg.
Parker, C. L., McGill Bldg.
Powell, A. E., 4th & E. Capitol Sts.
Rosenthal Co., Max, 716 13th St., N. W.
Research Laboratories, National Canners Ass., 1739 H St., N. W.
Rothstein & Co., R. J., 811 11th St., N. W.
Scott, D. T., 1513 U St.
Sipple, D. H., 735 11th St., N. W.
Tyree, J. S., 15th & H Sts., N. E.
Walker Gordon Laboratory, 1216 18th St., N. W.

England, Liverpool
Price, N., 95 W. Derby Road.

Fla., Jacksonville
Dux & Bro., Dr. H., 2400 Swan St.
Gamsby, Walters & Co.
Gresham, James, 507 E. Forsythe St.
Isaacs, Mark, 2805 Main St.

Ga., Atlanta
Atlanta Clinical Laboratory, 1011 Candler St.
Bliss, A. R., and Olive, A. H., 94 Butler St.
Law & Company, Inc.
Lloyd Laboratory, A. M., 10½ Auburn Ave.
Lockhart Laboratories, 33½ Auburn Ave.
McCandless Laboratory, 34 W. Alabama St.
Pratt Laboratory, N. P.
Trus-Con Laboratory, 604 Forsyth Bldg.

Ga., Macon
Clope, I. S., 709 Georgia Casualty Bldg.
Morris-Flinn Co., 569 Cherry St.

Idaho, Boise
Jackson, H. Louis

Ill., Chicago
Accuracy Laboratories, 1724 W. Madison St.
Advance Testing Laboratory, 219 S. Dearborn St.
American Research Laboratories, 846 Irving Pl. Bl.
Bartlett, N. G., 2450 Calumet Ave.
Block Chemical Laboratories, 206 S. LaSalle St.
Bonheim, L. M., 28 E. Kinzie St.
Boyer Chemical Laboratory, 11 W. Austin Ave.
Brewers & Distillers Laboratory, 608 S. Dearborn St.
Burdick-Abel Laboratory, 7 W. Madison St.
Calumet Pathological Laboratory, 2526 Calumet Ave.

Chicago Laboratory, 25 E. Washington St.
Chemical & Engineering Co., 431 S. Dearborn St.
Columbus Laboratories, 31 N. State St.
Commercial Testing & Engraving Co., 1785 Old Colony Bldg.
Cutter Laboratory of Illinois, 180 N. Dearborn St.
Deavitt, H. M., 209 S. LaSalle St.
Dixon Testing Laboratory, 136 W. Lake St.
Dunlap, F. L., 1457 Monadnock Blk.
Ellis, R. S., 6549 S. Bishop St.
Fischer Laboratories, 25 E. Washington St.
Flood Laboratories, Walter H., 431 S. Dearborn St.
Gebhardt, G. F., 3300 Armour Ave.
Gudeman, E., 140 W. Vanburen St.
Gulick-Henderson Co., 403, 431 S. Dearborn St.
Halsey Bros. Co., 30 N. Wabash St.
Hills Laboratories, 740 Rush St.
Hirsh, Dr. J. M., 1303 Tribune Bldg.
Horine & Bowey Co., 401 W. Superior St.
Hoskins, W., 2009, 111 W. Monroe St.
Hunt & Co., R. W., 2200-175 W. Jackson Blvd.
Illinois Chemical Laboratory, 44 S. Dearborn St.
Kawin Co., Chas. C., 417 S. Dearborn St.
Klaff, M. W., 1851 W. 12th St.
Laboratory of Pathology & Bacteriology, 25 E. Washington St.
Laboratory of Surgical Technique of Chicago, 7629 Jeffery Ave.
Ledr, J. R., 846 Irving Pk. Bl.
Lincoln-Gardner Laboratory, 30 N. Michigan Ave.
Mariner & Hoskins, 111 W. Monroe St.
Maxin, Niven, 431 S. Dearborn St.
Medical Research Laboratories, 25 E. Washington St.
Merritt, Wm. G., 1356 Wells St.
Miner Laboratories, 9 S. Clinton St.
National Bureau of Analysis, 209 S. State St.
National Pathological Laboratory, 5 S. Wabash Ave.
Nichols & Co., Chas H., 3849 Cottage Grove Ave.
North State Laboratory, 7 W. Madison St.
Peoples Laboratories, 1046 Wilson Ave.
Physicians Bacteriological Laboratory, 117 N. Dearborn St.
Research Laboratory of Chicago, 467 E. Ontario St.
Schmidt-Liebau Laboratory of Path., Bact. & Toxicology, 64 E. Vanburen St.
Schwartz, S., 219 S. Dearborn St.
Searle & Co., G. D., 215 W. Ohio St.
Scientific Laboratories, 1852 Ogden Ave.
Siebel Sons Co., J. E., 960 Montana St.
Snow & Co., F. A., 9277 S. Chicago Ave.
Teller, G. L., 31 N. State St.
University Research Laboratories, 143 N. Washington St.
Unzicker, Robt., 220 S. State St.
Van Trump, I., 2335 S. Paulina St.
Wahl Institute, A., 4046 Sheridan Road.
Wahl-Henius Institute, 1135 Fullerton Ave.
Wassermann Laboratory, 2159 W. Madison St.
Water Purification Laboratories, 6545 S. Bishop St.
Wesener, J. A., 31 N. State St.
Western Chemical Laboratories, 3856 Flournoy St.
White Laboratories, E. J., 910 W. Lake St.
X-Ray Laboratories, 615 Garfield Ave.

Ill., Springfield
Bain, W. G.

Ill., Urbana
Illinois State Water Survey, University of Illinois, Edw. Bartow, Dir.

Ind., Hammond
Indiana Laboratories Co.,

Ind., Indianapolis
Brown, James, Butler College
Bundy, C. M., Co., 25 E. South St.
Noble, Robert P., Room 29–32, 10 W. Ohio St.
Petrie, J. W., 325 Newton Claypool Bldg.
Smith, T. W., Industrial Bldg.

Ky., Louisville
Allen, J. D., Louisville Research Laboratory, Atherton Bldg.
Butler, Pierce, Starks Bldg.
Commercial Laboratories, 1313 Starks Bldg.
Diagnostic Laboratories, 820 Starks Bldg.
Laboratories of Clinical Research, 231 Atherton Bldg.
Janes & Breckler, Inc.
Louisville Research Laboratories, 730 Atherton Bldg.
Louisville Testing Laboratories, 503 Kentucky Title Bldg.
National Bureau of Analysis, 609 Atherton Bldg.
Southern X-Ray Laboratory, 6–10 Security Bldg.
Wooldridge, Powhatan J., 430 W. Main St.

La., New Orleans
Crescent Chemical Laboratory, 921 Canal St.
Gilmor, Gordon, 1044 St. Charles Ave.
Graner, Harold E., 1033 Peniston Ave.
Hart, E. J., Co., Ltd., 539 Tchonpitonlas Ave.
Kirchhoff, Wm. P., 827 Gravier Ave.
Kreh, Herman A., 527 Canal St.
Metz, Prof. A. L., Richardson Chemical Bldg.
Mims, John C., 825 Gravier St.
Morse, Irving H., 209 N. Peters St.
Salvant, Walter R., 309 N. Front St.
Savona, Louis J., 4607 Coliseum Ave.
Shilstone, Herbert M., 302 Camp St.
Wallior, Toledano A., 818 Carondelet St.
Williams, Edward G., 1008 Perrin Bldg.
Vacher, Ernest W., 1816 Napoleon Ave.

Me., Eastport
Loomis, Henry M.

Me., Lewiston
Andrews, A. B., Journal Bldg.
Easley, C. W., University of Maine.

Md., Baltimore
Ames, Jos. S., Monument & Linden Ave.
Beardsley, E. C., 402 Md. Tr. Bldg.
Beck, John G., 207-A Equitable Bldg.
Browne, A. L., 215 E. Fayette St.
Burbage, L. W., 3222 Abell Ave.
Carnegie Embryological Laboratory
Colson, Jr., H. C., 2809 Mt. Holly Ave.
Craft, Jacob, 110 S. Eutaw St.
Crenshaw, W. P., 1101 Calvert Bldg.
Engelhardt, H. D., 2912 Garrison Ave.
Gascoyne & Co., Inc., 27 S. Gay St.
Glacken, R. M., 211 N. Calvert St.
Glaser, Charles, 22 S. Gay St.
Hancock, F. A., 800 W. Lombard St.
Lehmann & Son, G. W., 210 E. Lombard St.
Meade, Richard K., & Co., 607–610 Law Bldg.
Miller, Ellis, 800 Reservoir St.
Penniman & Browne, 215 E. Fayette St.
Stillwell, E. C., 3405 Morris Ave.
Swartwout, Geo. A., 1212 W. Saratoga St.
Walker-Gordon Laboratory, Charles and Hamilton Sts.
White & Co., Thos. H., 11 S. Gay St.
Wiley & Co., Inc., Sexton Bldg., 7 S. Gay St.
Winkelman, W. H., 1101 Calvert Bldg.

Md., Curtis Bay
Mantius, Otto

Md., East Brooklyn
Law, LeRoy, M.

Mass., Boston
American Agricultural Service Bureau, 9th Floor, 92 State St.
Belding, D. L., 80 E. Concord St.
Bennett, Frank W., 26 Broadway
Boston Bio-Chemical Laboratory, 585 Boyls St.
Boston Indian Rubber Laboratory, 729 Boylston St.
Boston Laboratories, 30 Huntington Ave.
Bosworth, A. W., 169 Mass. Ave.
Bradley, Theo. J., 70th and Botolph Sts.
Brookline Chemical Co., 79 Sudbury Ave.
By-Products Realization Co., 60 Congress St.
Cabot, Godfrey L., 294 Washington St.
Carmichael, Henry, 88 Broad St.
Clinical Laboratory, 205 Beacon St.
Davenport, Bennett F., 34 School St., Room 36.
Durfee, W. C., 514 Atlantic Ave.
Eyster, George S., 19 Central St.
Factory Mutual Laboratories, 31 Milk St.
Fuel Testing Co., 220 Devonshire St.
Greeley Laboratories, Inc., 665 Hunt Ave.
Hodson, O. E., 243 Franklin St.
Holloway, Percy E., 173 State St.
Industrial Research Laboratories, 219 Endicott Ave.
Kent, Chester & Co., 142 Berkeley St.
Magrath, L. J., 120 Boylston St.
Mansfield Laboratories, Inc., 5 Apltn. St.
Miles, George W., 88 Broad St.
New England Bureau of Tests, Room 31, 12 Pearl St.
Physicians Laboratory, 93 Mass. Ave.
Pratt, W. B., 157 Franklin St.
Prescott Bio-Chemical Laboratory, S. C., 585 Boyl St.
Sharpless, S. P., 26 Broad St.
Shaw & Co., John, 15 Elkins St.
Sherman, Herbert L., 12 Pearl St., Room 30.
Sutker, Solomon, 88 Broad St.
United Chemists Corp., 400 Center St.
United Laboratories Co., 63 Leon St.
Weber, L. E., 729 Boylston St.
Werby Laboratories, 29 Central St.

Mass., Brookline
Crane, H. G.

Mass., Cambridge
Little, Arthur D., Inc., Charles River Road.

Mass., Leominster
Burdett, Harold W., 25 Grove Ave.

Mass., Lowell
Carleton & Hovey, 236 Merrimac St.
Hood Co., C. H. I., Thorndike St.
Mass., Worcester
Johnson, George H., P. O. Box 516
Smith, W. A. C., 598 Main St.
Mich., Alma
Pierce, Edwin G.
Mich., Detroit
Allen, W. H., Detroit Technical Inst., Adams and Witherell Sts.
Detroit Chemical Laboratory, 33 High St.
Detroit Medical Laboratory, 1544-52 David Whitney Bldg.
Detroit Testing Laboratories, 674 Woodward Ave.
Diack & Smith, 49 Larned St., W.
Hayward, F. H., 602 Breitmeyer Bldg.
Huff Laboratory, Inc., 870 Woodward Ave.
Industrial Engineering Co., 80 Griswold St.
Perry Testing Laboratory, 5th St. and M. C. Docks.
Pittsburgh Testing Laboratories, 304 Telegraph Bldg.
Sherman Laboratory, 3334 Jefferson Ave.
Tecla Electric Laboratory, 193-195 Cass Ave.
Trus-Con Laboratories, 706 Trussed Concrete Bldg.
Underwriters Laboratories, Inc., 506 Farwell Bldg.
Mich., Lansing
Robertson, E. L.
Mich., Port Huron
Weil, Charles L., P. O. Box 293.
Marquette, Mich.
Crowell & Murray, 401 Nester Block.
Minn., Minneapolis
Briggs, C. N., Old Colony Bldg.
Drew, C. W., 322 S. 4th St., Room 300
Granger Laboratories, Medical Block
Howard Wheat & Flour Testing Laboratory, 12-22 Old Colony Bldg.
Zenith Scientific Laboratories, 21 5th St., N. E.
Minn., St. Paul
Thatcher, Roscoe W., University Farm
Miss., Meridian
Katz, N. E., Cochran Bldg., Box 243.
Mo., Kansas City
Cross, R. M., 8th Fl., 1013 Grand Ave.
Cross, Walter M., 1013 Grand Ave.
Estabrook, Alva W., 710 Wyandotte Ave.
Floare, Paul E., 710 Wyandotte Ave.
General Testing Laboratory, 1112 Grand St.
Kansas City Testing Laboratory, 1013 Grand Ave.
Lyon, Albert C., 1112 Grand Ave.
McDougall Pasteur Laboratory, W. T. 640 Minn. Ave.
Scientific Laboratory Co., 301 E. 22nd St.
Southwestern Laboratories, 104 Mass. Bldg.
U. S. Laboratories Co., 10 Board of Trade Bldg.
Wirthman Laboratories, 1335 Grand Ave.
Mo., St. Louis
Caspari, Dr. C. E., St. Louis College of Pharmacy, 2108 Locust St.
Chauvenet, Regis & Bro., Rooms 14-16, 620 Chestnut St.
Cox, W. W. & Co., 1401 N. Broadway
Goldman Process Co., 1935 Boatman's Bank Bldg.
Hinrichs Laboratories, Carl G. Hinrich, Ph.D., 4106 Shenandoah Ave.
Kammerer, Dr. A. L., 4276 Flad Ave.
Kessler, Dr. J. J., 224 S. Vandeventer Ave.
Monfort, W. F., 506 N. Vandeventer Ave.
Robertson, J. D., c/o Robt. W. Hunt Co., 1403 Syndicate Tr. Bldg.
St. Louis Sampling & Testing Works, R. W. Barrell, Mgr., 713 Clark Ave.
Weidemann, H. E., 1604 Chemical Bldg., 721 Olive St.
Wills, J. L., 3457 Crittenden St.
Wixford, J. F., 2223 N. 9th St.
Nevada, Reno
Jacobson, C. Alfred, University of Nevada.
N. J., Glen Ridge
Doolittle, Roscoe E., 109 Hillside Ave.
N. J., Montclair
Ellis-Foster Co.
New Jersey Testing Laboratories, 92-98 Greenwood Ave.
N. J., Newark
Baldwin, H. B., 927 Broad St.
Dannerth, Frederick, 325 Academy St.
Eakeley, Charles W., 144 Walnut St.
Edel Laboratories, Inc., 116 Market St.
Flinn, Frederick B., 43 Lawrence St.
Foster, John B., & Bro. Co., 138 Roseville Ave.
Friedman, Isaac, 51 Halsey Ave.
Gibson, Harriet W., 77 Washington Ave.
Levin, Isaac H., 186 Hillside Ave.
Maag, Charles R., 185 Mulford Ave.
Marx, Max, 43 Vesey Ave.
Palmer & Kohler, 10 Arch St.
Reigeluth, Edward L., 207 Broad St.
Reinhold, Otto F., 53 Demarest St.

Renziehausen, Wm. F., Co., 45 Oliver St.
Wiener, Wm., 62½ Nelson Place
Yocum, John H., 325 Academy Ave.
N. J., New Brunswick
Voorhees, Louis A., 111 Carroll Place
N. J., Trenton
Walker-Gordon Laboratory Co., 234 N. Broad St.
Trenton Electro-Chemical Laboratory, 709 Hamilton Ave.
Wallace, Shippen, State House
Warren, Howard, 195 W. Hanover St.
N. Y., Albany
Touceda, Enrique, 51 State St.
N. Y., Auburn
Case Research Laboratory
N. Y., Brooklyn
Abernathy, John F., 703 Myrtle Ave.
Behnken, H. Emile, 466 Fifth St.
Jordan, Stroud, Park and Nostrand Aves.
N. Y., Buffalo
Arner, Fred C., 291–303 Michigan Ave.
Hill, Herbert M., 20 W. Eagle St.
Hoppenstedt, A. W., Laboratory, Perry and Mississippi Sts.
Miller, John A., 44 Lewis Block.
Niagara Frontier Laboratory, 194 Main St.
Sy, A. P., 24 High St.
N. Y., Cuba
Moto Laboratories
N. Y., Ithaca
Briggs, Prof. T. R., Dept. of Chemistry, Morse Hall, Cornell University
Browne, Prof. A. W., Dept. of Chemistry, Morse Hall, Cornell University
Cavanaugh, Prof. G. W., Dept. of Chemistry, Morse Hall, Cornell Univ.
Chamot, Prof. E. M., Dept. of Chemistry, Morse Hall, Cornell Univ.
Cross, Prof. L. J., Dept. of Chemistry, Morse Hall, Cornell Univ.
Dennis, Prof. L. M., Department of Chemistry, Morse Hall, Cornell University
Frost, W. S., Department of Chemistry, Morse Hall, Cornell University
Orndorff, Prof. W. R., Department of Chemistry, Morse Hall, Cornell University
N. Y., Lackawanna
Babcock Testing Laboratory, 803-805 Ridge Road
N. Y., Little Falls
Hansen's Laboratory, Chr., Inc.
N. Y., New York City
Adams Chemical Laboratories, 490 E. 139th St.
Aisen, Maurice, 12 E. 48th St.
Alexander, Abr., 188 St. Nicholas Ave.
Alexander, Jerome, 11th Ave. and 59th St.
American Institute for Scientific Research, 44 E. 23d St.
American Radio & Research Corp., 21 Park Row.
Ashley, Percy C., 24 E. 48th St.
Bacon, Charles V., 136 Liberty St.
Banks, John H., 61 Broadway
Barse Co., T. R. D., 662 8th Ave.
Bendick Co., 312 E. 22d St.
Benjamin, Geo. H., 66 Broadway
Blackmore, Hy. S., 489 5th Ave.
Blaile, A., 76½ Pine St.
Bobrow, A. & J., 1885 Madison Ave.
Breneman, Abram R., 97 Water St.
Brewers Academy, U. S., 200 Worth St.
Bronx Laboratory of Pathology and Bacteriology, 813 Elsemere Pl.
Brooks, R. O., 191 Franklin St.
Brunelle, Geo. C., 802 Lexington Ave.
Bull & Roberts, 100 Maiden Lane
Buonomo, Ralph, 55 Oak St.
Bureau of Chemistry, N. Y. Produce Exchange, 2 Broadway
Chappelle, Philip, 92 Beekman St.
Claremont Laboratories, 101 W. 66th St.
Clinical Laboratories, 200 W. 56th St.
Connellan, J. J., 40 E. 41st St.
Constant Co., C. L., 42 New St., 5th Floor.
Cornwall, L. H., 375 Park Ave.
Cosmic Laboratories, 33 Union Sq., W.
Crocker Spec. Research Fund, 1145 Amsterdam Ave.
Curtman, L. J., 428 W. 59th St.
David, Albert, 80 Maiden Lane
David Laboratories, Inc., 212 5th Ave.
Davis, F. I., 120 Broadway
Davis, Philip L., 156 5th Ave.
Dehlo & Stein, 546 W. 23rd St.
Delco Service Laboratories, 18 W. 62d St.
Delpha Laboratories, 2228 Broadway
Doremus, Dr. Chas. A., 55 W. 53d St.
Douty, Daniel E., 340 Hudson St.
Dow & Smith, 131 E. 23d St.
Dreyfus, Wolfram E., 646 Madison Ave.
Dullin, Alfred E., 470 W. 66th St.
Electrical Testing Laboratories, 80th St. and East End Ave.
Electro Chemical Co., 1928 Lexington Ave.
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St.
Endemann's Chemical Laboratory, C. H., 23 William St.
Epstein, H. M., 175 Front St.
Eschmanns, Richard A., 226 Lafayette Ave.
Faber, Henry B., 115 Broadway

Falk, K. G., 428 W. 59th St.
Farmer & Malcolm, East End Ave. and 80th St.
Featherstone Technical Research Laboratories, 1130 Church St.
Ferguson Laboratories, 121 W. 42nd St.
First Scientific Station for the Art of Brewing, 200 Worth St.
Fordham Andey Laboratory, 1278 Fulton Ave.
Franklin Laboratories, 338 Pearl St.
Fraser & Co., 50 E. 41st St.
Freeman, Walter K., 30 E. 42d St.
French-Pancoast Laboratories, Inc., 109 Broad St.
Galpin, H. T., 57 W. 57th St.
Geesler, Jos. F., 6 Harrison St.
General Reduction Gas & By-Product Co., 49 Wall St.
General Research Laboratory, Inc., 514 E. 58th St.
Gibbsen X-Ray Laboratories, 340 E. 26th St.
Globe Chemical Laboratories, 58 Prince St.
Gooch, George W., 322-323 Copp Bldg., 218 S. Broadway
Graf, Wm., 171 Madison Ave.
Grant's Laboratories, Dr., 53 Worth St.
Griffin, James H., 277 Broadway
Grosvenor, Wm. M., 50 E. 41st St.
Halpern, Louis W., 48 7th St.
Haile, Wm. R., 47 W. 34th St.
Harnden, Frederick E., 99 John St.
Harris Laboratories, 86 Fulton St.
Hawkins Ives Corp., 9 Church St.
Hazard's, E. C., 74 Grove St.
Hedwig Laboratories, 729 7th Ave.
Hersey Co., Ltd., Milton, 198 Broadway
Higgins Laboratories, 40 E. 41st St.
Hirsch, Dr. J. M., 120 Broadway.
Hochstadter Laboratories, 227 Front St.
Hoff, John N., 17 Battery Pl.
Hollander, Louis, 60 E. 118th St.
Hudson, W. G., 1133 Broadway
Hudson & Co., Inc., 489 5th Ave.
Hunt, Fred F., 10 Old Slip St.
Hygienic Laboratories, 231 2d Ave.
Industrial Testing Co., 402 W. 23d St.
Institute of Chemistry, Pathology & Bacteriology, 45 E. 42d St.
International Druggists & Chemists Laboratory, Inc., 280 Pearl St.
International Laboratories, 65 Irving Pl.
Ising, Chas. E., 2228 Broadway
Jackson, Louis L., 5 Beekman St.
Jacobs Laboratory, Inc., 49 Wall St.
Jacoby, Henry E., 95 Liberty St.
Jaeck Co., Louis, 257 Front St.
Janny, Alois, 25 Frankfort St.
Johnson, Emil F., 96 Maiden Lane
Jones, Prof. Wm., 104 John St.
Jurist, Benjamin, 19 Park Pl.
Kamhourian, C. S., 321 Madison Ave.
Kann, Robert, 124 Front St.
Kilbourne, Chas. H., 1476 Broadway
Klotz, J. R. M., 120 Broadway
Knudsen, K. H. V., 96 Maiden Lane
Kobbler, Jos., 36 2d St.
Kraus Research Laboratory, 130 Pearl St.
Kruskal, Nicholas, 329 Grand Ave.
Laboratory Industrial Hygiene & Sanitation, 762 Prospect Ave.
Lantz, Carl C., 1931 Broadway
Lederle Laboratories, 39 W. 38th St.
Ledoux & Co., 99 John St.
Lee, A. Porter, Produce Exchange
Lee, Walter, 337 W. 22d St.
Levine, V. E., 36 E. 2d St.
Lieher & Co., H., 14 Platt St.
Lingert, A. E., 321 Madison Ave.
Loper, George W., 122 Front St.
Love, E. G., 130 E. 15th St.
Lowe, Charles O., Produce Exchange
McIlhiney, P. C., 50 E. 41st St.
McKenna, Dr. Chas. F., 56 Church St.
Manhattan Laboratories, 294 6th St.
Mason Laboratories, Inc., 142 W. 125th St.
Matthews, J. Merritt, 50 E. 41st St.
Maywald, Frederick J., 89 Pine St.
Medical Analytical Laboratory, 9 E. 59th St.
Melzer, Wm., 66 Beekman St.
Metchnikoff Laboratory, 225 6th St.
Miller, David, 93 2d Ave.
Miller, Theo., 560 W. 48th St.
Munro & Co., 1 Liberty St.
Munsell, Chas. E., 110 Horatio St.
Murray Hill Laboratory, The, 321 Madison Ave.
National Aseptic Laboratories, Inc., 74 Cortland St.
National Brewers Academy & Testing Laboratory, 402 W. 23d St.
National Pathological Laboratory, Inc., 18 E. 41st St.
New York Diagnostic Laboratory, 161 E. 116th St.
New York Sugar Trade Laboratory, Inc., 79 Wall St.
Niagara Chemical Laboratories, 76½ Pine St.
Official Testing Laboratory, R. O. Brooks, 191 Franklin St.
Orlewitz, H., 254 W. 34th St.
Palmenberg, Oscar W., 50 E. 41st St.
Peters, Richard, 225 W. 34th St.
Physiological Corp. for Medical Research, 502 Canal St.
Physiological Research Laboratories, Inc., 126 W. 31st St.

Pitkin, Lucius, Inc., 47 Fulton St.
Practitioners Laboratory, 624 Madison Ave.
Randel & Co., F. L., 197 Pearl St.
Ranklin, Jas., Jr., 99 John St.
Recording Laboratory, 12 W. 37th St.
Reed-Morris Laboratory, 227 Fulton St.
Reifenberg & Bro., F. E. (Inc.), 106 Fulton St.
Reimherr, Chas., 2017 Anthony Ave.
Reliance Laboratory, 77 Pearl St.
Research Laboratories, Inc., 19 Park Pl.
Ricketts & Co., Inc., 86 Maiden Lane
Rodrian, Rich., 143 E. 23d St.
Rogers, Robt. W., 18 E. 41st St.
Rosenthal, Dr. J. Myron, 767 Dawson St.
Rosier & Neimeister, 60 Washington St.
Rossati, Guido, 226 Lafayette St.
Rutstein, Leo., 2 Rector St.
Saarbach, Ludwig, 114 Pearl St.
Salinitro, Nicholus, 173 E. 116th St.
Sanche, Hercules, 489 5th Ave.
Schlauch, Theo. S., 368 W. 57th St.
Schlichting, Emil, 400 W. 23d St.
Schulhof, Dr. Leo, 90 John St.
Schwarz Laboratories, 200 Worth St.
Schweitzer, Hugo, 117 Hudson St.
Scientific Station for Pure Products, 50 E. 41st St.
Schnitter, Adolph, 1230 Boston Rd.
Sherer Bros., 120 Front St.
Silliman, H. E., 136 W. 52d St.
Singer's Laboratory, 56 Lenox Ave.
Smith, Carl E., 5 Beekman St.
Smith, Martin & Co., 150 Lafayette St.
Sowers, Ossa, 4 Cedar St.
Sparks, John C., 30 Church St.
Sparks, Jno. E., 30 Church St.
Spring, Geo. A., 664 6th Ave.
Starr, Henry F., 80 Maiden Lane
Starr Recording Laboratories, 9 E. 37th St.
Stebbins, Jas. H., Jr., 50 E. 41st St.
Stillman & Van Siclen Chemical Laboratory Co., 6 Church St.
Stillwell & Gladding, 95 Front St.
Stillwell Laboratories, 76½ Pine St.
Straus Laboratory, 348 E. 32d St.
Suckert, J. J., 30 Church St.
Swoboda, Hy. J., 167 W. 72d St.
Sydenham Laboratories, 616 Madison Ave.
Takamine Laboratory, Inc., 120 Broadway
Talico Laboratory, 307 E. 119th St.
Teeple, Jno. E., 50 E. 41st St.
Terpezone Co., 18 E. 41st St.
Thomas, Alphonso H., 103 Front St.
Turner, Francis M., Jr., 1 Madison Ave.
Underwriters Laboratory, Inc., 135 William St.
United Laboratories, 45 E. 42d St.
Van-Der Linde, Harold, 30 Church St.
Von Oefele, Felix, 326 E. 58th St.
Waller & Renaud, Inc., 159 Front St.
Warren, H. S., 18 E. 41st St.
Watters, Dr. L. L., 53 5th Ave.
Weichmann, F. G., 39 W. 38th St.
Weichert, A., 101 Wall St.
Weinstein, Jos., 1771 Madison Ave.
Wiechmann, F. G., 90 West St.
Wolf, August S., 206 W. 95th St.
Worden, Edw. C., 2 Rector St.

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Fitzgerald Laboratories, Inc., 107 State St.

N. Y., Rochester
Aseptic Laboratories, Inc., 107 State St.
Coates, Bennett & Reidenbach, Inc., 97 St. Paul St.
National Food Manufacturers Laboratory, 86 White St.
Probst Co., P. T., 29 N. Water St.
Richardson Corporation, 1069 Lyell Ave.
Scott, John Wood, 107 State St.
Smith, J. H., 61 South St.
Will Corporation, The, 262 East Ave.
Wright, Alfred G., 531 Main St., W.

N. Y., Schenactady
Organic Products Corporation, Schenectady Hygienic Laboratories.
Steinmetz, Charles P., General Electric Co.

N. Y., Syracuse
Booth, Wm. M., 514 Dillaye Mem. Bldg.
Cummings, J. Miles, 200 W. Castle St.
Cummings, W. L., 117 Standart St.
Englehardt, F. E., 405 City Hall
Fryer, George S.
Porter, J. Edw., 8 Clinton Block

N. Y., Troy
Masox, Wm. P., Rensselaer Polytechnic Institute.

N. Y., Utica
Murray, W. S.

N. Y., Yonkers
Hallock, Albert P., 10 Stone St.

N. C., Charlotte
Drane, Fred P.
Hawley's Laboratories.

N. C., Wilmington
Caldwell, T. B.
Law & Company, Inc.

Ohio, Canton
General Laboratories, 13th and Court Aves., S. W.

Ohio, Cincinnati
Broeman & Co., F. C. Laboratory, 215 E. 4th St.
Cincinnati Testing Bureau, Room 4, 31 E. 4th St.
Cincinnati Biological Laboratories Co., 54 Vindonesse Bldg.
Cook Biological Laboratories, Hamilton Pike, Mt. Healthy.
Dreckman, Dr. Otto, 1180 Harrison Ave.
Fries & Bros., A., 312 E. 2d St.
Lunkenheimer Co., The, Waverly and Beekman Sts.
Meyers, Edw. G., 1189 Harrison Ave.
Pittsburgh Testing Laboratory, 211 Bell Block
Robinson, Louis G., Laboratory, Harrison Bldg., 31 E. 4th St.
Simonson, Wm., 126 W. 9th St.
Werner, Louis, 914 Race St.
Westenfelder, B. D., 1414 Race St.
Wetterstroem, Theo. D., 118 E. 6th St.

Ohio, Cleveland
American Bureau of Analysis Laboratory, 338 Anisfield Bldg.
Bennett, E. J., 2041 E. 3d St.
Bishop, S. M., 6523 Euclid Ave.
Burwell, A. W., 3434 E. 93d St.
Cremer & Case, 2800 Washington Ave., N. W.
Crobaugh, Frank L., Co., 1 Bratenhl Bldg.
Cleveland Laboratory, The, 605 Bangor
Cleveland Research Laboratory, 2391 W. 38th St.
Cleveland Testing Laboratory, 517 Superior Bldg.
Cremer Case Co., The, 2800 Washington Ave.
Crowell & Murray, 407 Perry Payne Bldg.
Emmerton, Frederic A., 1501 Columbia Road, N. W.
Hannum Laboratory, 418 Caxton Bldg.
Herron, James H., 2041 E. 3d St.
Medical Chemical Laboratory, 646 Rose Bldg.
Mewton & McCurdy, 1426 W. 3d St.
Mohr Medical Laboratory, 617 Schofield Bldg.
Peck, Francis J., & Co., 731 Williamson Bldg.
Pittsburgh Testing Laboratories, 242 Rockefeller Bldg.
Rattle, W. J., & Son, 33 Commercial Bank Bldg.
Textor Chemical Laboratories, 603 Superior Ave., N. W.
Branches:
Agricultural Laboratory, 942 Prospect Ave., S. E.
Cleveland Laboratories, 942 Prospect Ave., S. E.
Industrial Testing Laboratory, 517 Superior Bldg.
Newton & McCurdy, 1426 W. 3d St., N. W.
Pittsburgh Testing Laboratories, 242 Rockefeller Bldg.

Ohio, Columbus
Long, C. F., 828 Columbus Savings & Trust Bldg.
Markworth, O. S., Ohio Testing Laboratory

Ohio, Dayton
Electrolytic Oxy-Hydrogen Laboratories, Inc., Beaver Power Bldg.

Ohio, Fremont
Benner, Raymond C., National Carbon Co.

Ohio, Toledo
Kirchmaier, G. A.
Longfellow, Dr. R. C., Clinical Laboratory
Morgan, G. S.
Rex, C. R., Tri-State Laboratories

Ohio, Youngstown
Pierce, Edwin G., Box 442

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Edwards & Lazell, 537 Railway Exchange
Gilbert-Hall Co., 609–13 Couch Bldg.
Harding, E. P. W., 622 Worcester Bldg.
Oregon Independent Testing Laboratory, 263½ Yamhill Ave.
Pernot Laboratories, 502 Medical Bldg.,

Pa,. Allentown
McCready, E. B.
Eastern Testing Laboratories
Snelling, W. O., 205 N. 5th St.

Pa., Easton
Shimer, Porter W.

Pa: Erie
Erie Laboratory, 1519 French St.

Pa., Lancaster
Goodell, J. E., 458 Woolworth St.

Pa., Philadelphia
Adamson, Chas. B., 138 S. Third St.
Althouse & Heyer, 1502 Real Estate Trust Bldg.
Bacteriological Laboratory, 2d and Luzerne Sts.
Barnes, A. C., Co., 24 N. 40th St.
Booth Garrett & Blair, 406 Locust St.
Bragger, Edgar, 3551 N. 5th St.
Carlitz, Jos. S., & Co., 159 N. 2d St.
Chemical Laboratory of Philadelphia, 159 N. 2d St.
Chemical Service Laboratory, Inc., Real Estate Trust Bldg.
Clute, Wm. W., 2118 Arch St.
Conwell, E. L., 2024 Arch St.
Cook, Harold J.

Dairy Laboratories, 1937 Market St.
Davis, George C., 39 S. 10th St.
Dean, J. Atlee, 5420 Baltimore Ave.
Devor, George W., 113 Walnut St.
Dunker-Poole Co., 1829 Filbert St.
Eckels, H. S., & Co., Inc., 1922 Arch St.
Genth Chemical Laboratory, 138 S. 3rd St.
Graves, Meade & Baker Co., 639 N. Broad St.
Hamlin & Morrison, 119 S. 4th St.
Hance, A. M., 249 S. Orianna St.
Hand, Jacob H., 217 S. 24th St.
Harkinson, Robt., & Co., 249 S. Orianna Ave.
Heinle, Chas. L., Spec. Co., 2731 Kensington Ave.
Hite, Charles E., 305 S. 2d St.
Husband, Thom. J., Jr., 276 S. 3d St.
Hygienic Laboratories Co., 1430 S. Penn Square
Industries Chemical Laboratories, 1500 Wolf St.
Isaac, Lawrence, 36 N. 4th St.
Jacobs, Saml., 908 N. 8th St.
Jones, Douglas & Co., 1910 N. Croskey Ave.
Jones, C. L., 1213 Filbert St.
Jones, W. H., 39 N. 50th St.
Jordan, Frank J., 915 N. 13th St.
Jordan, Jr., W. H. & F., 218 N. Delaware St.
Kernan & Valentine, 721 Walnut St.
Kitsee, Dr. I., 209 Walnut Place
Langner, Paul H., 1726 Sansom St.
LaWall, Charles H., 39 S. 10th St.
Leichner, Charles, 1742 N. 10th St.
Lynch, John J., 632 Carpenter St.
Maynard, Lee H. P., 1937 Market St.
Meyer, Theodore, 924 Locust St.
Miller, R. C., 20th and Market Sts.
Miller, T. Slocum, Co., 3806 Lancaster Ave.
Morrison, B. H., 119 S. 4th St.
Ogden Laboratories, 228 Chancellor St.
Philadelphia Chemical Laboratory, Inc., 159 N. 2d St.
Philadelphia Clinical Laboratory, Inc., 1833 Chestnut St.
Philadelphia Research Bureau, 159 N. 2d St.
Phillips & Jacobs, 622 Race St.
Pinkerton, Thos. C., Real Estate Trust Bldg.
Pittsburgh Testing Laboratory, Commercial Trust Bldg.
Reinhart, J. Q., 510 Arch St.
Rorer, Wm. H., 267 S. 4th St.
Rosenbaum Bros., 605 S. 3d St.
Rudy, Wm. D., 411 Walnut St.
Sadtler, S. S., & Sons, 210 S. 13th St.
Scharf Morris, 2429 S. Adler St.
Schofield, H. A., Commercial Trust Bldg.
Searle & Hereth Co., 639 N. Broad St.
Siebert, E. A., 127 Walnut St.
Sloan, Earl S., Inc., 639 N. Broad St.
Slocum Co., Ltd., 639 N. Broad St.
Smith, N. B., 411 Walnut St.
Smith, Rudy & Co., 411 Walnut St.
Spackman Engineering Co., Henry S., 2024 Arch St.
St. John, E. Q., 1831 Chestnut St.
Terry & Seibert, 127 Walnut St.
Tutwiler, C. C., 1629 Real Estate Trust Bldg.
Underwriter's Laboratories, Inc., Bullitt Bldg.
Walker-Gordon Laboratory Co., 1118 Jefferson St.
U. S. Bureau of Chemistry, 134 S. 2d St.
Wahl, Manfred, 1716 Chestnut St.
Werbell Patho-Bacteriological Laboratories, 5th and Spring Garden
White, Albert R.
Whitfield, J. E., 404 Locust St.
Wilson, Robt. J., & Co., 102 N. 60th St.
Wolg, Chas. A., 600 S. 15th St.
Zoelle, Wm., 623 Alleghany Ave.

Pa., Pittsburgh

Anhaltzer, Henry, 323 Brushton Ave.
Aschman, F. F., 608 McCance Block
Baxter, J. D., Garrison Bldg.
B. D. Chemists, 6350 Penn Ave.
Beilstein, Edw. G., 2225 Perryville Ave.
Brown & Harley, 238 4th Ave.
Brownlee, H. R., Laboratory, Inc., 1903 Benedum-Trees Bldg.
Burrell, G. A., Benedum-Trees Bldg.
Craven Research Laboratories, 1019 House Bldg.
Dairy Laboratories, McCance Block
Davis, E. B., 24 Emerson Ave.
Deane, Edgar A., 4719 Blair Ave.
Duckwall, E. W., 2d and Brilliant Sts., Aspinwall
Ford, J. B., Co., 507 Commonwealth Bldg.
Gulick-Henderson Co., 525 3d Ave.
Hall & Paul, Empire Bldg.
Harley, F. O., Apollo Bldg.
Hoffman Process Co., Park Bldg.
Hunt & Co., R. W., Monongahela Bank Bldg.
Jamieson, Augustus, 4049 Penn Ave.
Keystone Laboratories, Garrison Bldg.
Lehigh Valley Testing Laboratory, 1607 Benedum-Trees Bldg.
La Peer Laboratories, 637 Herron Ave.

Mason & Son, F. L., May Bldg.
McTaggart, J. R., McCance Block
Mellon Inst. of U. of P., O'Hara St.
Metallurgical Laboratory, Bailey Farrell Bldg.
National Canners Laboratory, 2d and Brilliant Sts., Aspinwall
Par Laboratories Co., 1st National Bank Bldg.
Pathological Laboratory, 1037 Murrayhill
Pittsburgh Chemical & Pathological Laboratory, McCance Block
Pittsburgh Metallurgical Co., 818 Park Bldg.
Pittsburgh Testing Laboratories, 7th and Bedford Aves.
Pittsburgh Wassermann Laboratory, May Bldg.
Rader, Lyell M., 1916 Union Bank Bldg.
Rittman Process Corp., 115 Empire Bldg.
Rose, Floyd & Co., 1st National Bank Bldg.
Schindler Testing Laboratory, Geo., Hiland Bl.
Singer Memorial Research Laboratory, Wm. H., Parkway, East and Sandusky Sts.
Smith, G. C., Garrison Bldg.
Stahl, K. F., 57th and A. V. Ry.
Steel City Testing Laboratory, Century Bldg.
Stern, Herman, 1436 5th Ave.
Trus-Con Laboratories, 1103 Pittsburgh Bank for Savings Bldg.
Watt, Wm. L., 1213 House Bldg.
Webb, Z., 861 Lilac St.
Williams, Jos., Co., 1104 Century Bldg.
Witt, Harry L., & Co., 48 Logan St.
Zemmer Co., 3943 Louisa Ave.

R. I., Newport
Calder & Strickland
Lorah, James R., & Co., 141 Bellevue Ave.

R. I., Providence
Bush & Co., Chas. S.
Calder & Strickland, 4 Market Square.
Fenner, Albert, 869 Westminster St.
Green, E. H., 531 Grosvenor Bldg.
Perkins, George E., 1620 Smith St.
Saunders & Franklin, 184 Whittier Ave.

S. C., Kershaw
Habenicht, Leroy H.

Tenn., Knoxville
Childress & Hunter, 7 Masonic Temple
Kuhlman & Chambliss Co., 301 S. Gay St.
Nichols Laboratory, 519 Prince St., Knoxville, Tenn.
Sanford, Chamberlain & Albers Co., 430 S. Gay St.

Tenn., Memphis
Barrow-Agee Laboratories, 301–309 Falls Bldg.

Tenn., Nashville
Brown Laboratory, Inc.
Consolidated Gas Purification & Chemical Co., 911 Syahlman Bldg.
Long Laboratories, J. C., 168 8th Ave., N.
Nashville Analytical Laboratories, 155 8th Ave., N.

Texas, Dallas
Southwestern Laboratories, 1812½ Main St.

Texas, Fort Worth
Fort Worth Laboratories, 204½ Houston St.

Texas., Galveston
Paquin, Felix, Hall Bldg., 3d Floor

Texas, Houston
Hill, F. J., 1105 Boundary Ave.
Houston Laboratories, 215 Main St.
Urban, E. A. & N., Houward Ho. Heights

Utah, Salt Lake City
Bardwell, A. F., 158 S. West Temple
Bird-Cowan Co., 160 S. West Temple
Crimson & Nichols, 229 S. West Temple
Currie, J. W., & Co., 70 W. Broadway
Custer, A. E., 31 Post Office Place
Ebaugh, W. C., 809 Kearns Bldg.
Kingsley, G. E., 70 W. 4th St. South
Kinney, S. P., 1605 Walker Bank Bldg.
Officer & Co., R. H., 169 S. West Temple
Salt Lake Laboratory, 503 Judge Bldg.
Union Assay Office, 152 S. West Temple
Utah-Idaho Laboratory, 618 McIntyre Bldg.

Va., Norfolk
Norfolk Testing Laboratories, Inc., J. A. Callenbach, Director, Paul-Gale-Greenwood Bldg.
Thomas, Edwin O., 803–12–14 Paul-Gale-Greenwood Bldg.

Va., Richmond
Froehling & Robertson, 815 E. Franklin St.
Meyer, Otto, 1301 E. Main St.
Rudd & Bolenbaugh, 12th and Clay Sts.
Taylor, Wm. H., 610 E. Grace St.
Whitfield, J. M., 1109 E. Broad St.

Va., Roanoke
Gibboney, J. G., c/o N. & W. R. R. Co.

Wash., Seattle
Appleby, H. W., A1008 Cobb Bldg.
Bogardus Testing Laboratories, 90 Columbia Ave.
Campbell-Wells Co. 114 James St.

Darrin Co., Inc., 312 Pantages Bldg.
Dewsnap, Samuel G., 525 26th Ave., S.
Falkenburg & Co., Second Ave. and Yester Way
Frampton, Joseph F., 1427 W. 48th St.
Hale, Frank E., 421 Joshua Green Bldg.
Laucks, I. F., 99 Marion St.
Littlefield Laboratory Co., 302 Boston Block
Mack, George R. T., 1 Downs Block
Mozzone, Ponzio, 166 17th Ave.
Newhall Co., Charles A., 1910 Westlake Ave.
Pacific Coast Testing Laboratories, 502 Lyon Bldg.
Pacific Wassermann Laboratories, 1013 Joshua Green Bldg.
Peterkin Memorial Laboratory, 1102 Cobb Bldg.
Physicians Clinical Laboratory, 1001 Cobb Bldg.
Powell, Archibald O., Jr., 404 Central Bldg.
Secker & Harrison, 624 Northern B. & T. Bldg.
Smith, Corwin D., 1701 Hoge Bldg.

Wash., Tacoma
Bennett Laboratories, The
W. Va., Clarksburg.
Engle, Robert H., 201 Milford St.
Wis., Madison
Burgess Laboratories, C. F.
Wis., Milwaukee
Atkinson, C. J., & Co., 326 Grand Ave.
Cochrane, T. H., 756 Park St.
Industrial Chemical Institute of Milwaukee, 200–210 Pleasant St.
Kremers-Urban Co., 529-531 Market St.
Lasche Institute of Fermentology, 2809–11 Vine St.
Lemon, Edward B., 652-656 Wentworth Ave.
Milwaukee Analytical Laboratories, 210 E. Water St.
Prentiss, George N. 225 34th St.
Ruschhaupt, Fred., Room 404, 82 Wisconsin Ave.
Singer-Perlstein Co., 704-708 Railroad Exchange Bldg.
Wisconsin Consulting Laboratories, 220 Greenbush Ave.

II. CHEMICAL ENGINEERS

Ark., Fort Smith
Industrial Laboratories, Inc.
Cal., Los Angeles
Baruch, Edgar, 704 Wright and Callender Bldg.
Baverstock & Payne, 223 W. 1st St.
Thomson, Henry N., 918 S. Kingsley Drive
Cal., Oakland
Drake, Bryant S., 5830 Colby St.
Cal., San Francisco
Beckman & Linden Engineering Corp., Balboa Bldg.
Foundation Co., The, Holbrook Bldg.
Gould & Ash, 216 Pine St.
Westinghouse, Church, Kerr & Co.
Cal., Stanford University
Mitchell, J. Pearce
Canada, Belleville, Ont.
Allen, Lucius E., New Bank of Commerce Bldg.
Canada, Ottawa, Ont.
Haanel, Eugene, Department of Mines
Canada, Montreal
Canadian Inspection & Testing Laboratories, Ltd.
De Cew, J. A., Canadian Express Bldg.
Hersey Co., Ltd., Milton, 257 Portage St.
Westinghouse, Church, Kerr & Co.
Colo., Denver
Dorr Co., The, 1009 17th St.

Conn., Bridgeport
Southern Engineering Corp., Henry 11 Law St.
Cuba, Cienfuegos
Le Blanc, Evaristo Montalvo, Arguelles 145
Cuba, Habana
Buggi, P. D., 102 Altos St.
D. C., Washington
Institute of Industrial Research
White, Alfred H., 204 Florence Court
Del., Wilmington
Chemical Engineering Laboratory of Francis du Pont
Ga., Atlanta
Law & Company, Inc.
Pratt Engineering & Machine Co.
Ill., Batavia
Sperry & Co., D. R.
Ill., Chicago
Foundation Co., The, Rookery Bldg.
Gudeman, Edward, 903 Postal Telegraph Bldg.
Hirsh, Dr. J. M., 1303 Tribune Bldg.
Hoskins, Wm., 111 W. Monroe St.
Kaestner & Hecht Co., Inc.
Lowenstein, Arthur, 1723 1st National Bank Bldg.
McCormack & Co., 33d and Armour Ave.
Pickard, Glenn H., 9 South Clinton St.
Stroud, E. H., & Co., 928–934 Fullerton Ave.

Unger, John S., 3344 Broadway
Universal Engineering Co., 700 W. 22d St.
Westinghouse, Church, Kerr & Co.

Ill., LaSalle
Ede, J. A.

Ill., Urbana
Bartow, Edward, University of Illinois

La., New Orleans
Becnel, Lezin A., 1510 Arabella St.
Magné, J., P. O. Box 365

Md., Baltimore
Bartlett-Hayward Co.
Free, Edward E., 1105 Madison Ave.
Hoffman, Wm. E., Jr., 524 Equitable Bldg.
Meade, Richard K., Law Bldg.
Miller, Ernest B., 1100 Garrett Bldg.

Mass., Boston
Badger, E. B., & Sons Co., 63–75 Pitts St.
Barrier, Edw. A., 31 Milk St.
Fish, Charles C. R., Engineers Club, Commonwealth Ave.
Little, Arthur D., Co., Inc., 93 Broad St.
Lummus, Walter E., Co., 173 Milk St.
Sharples, Stephen P., 26 Broad St.

Mass., Cambridge
Little, Arthur D., Inc., Charles River Rd.

Mass., Fall River
Austin, Herbert, P. O. Box 259
Scott, Ernest, & Co.

Mass., Lowell
Olney, Louis A., Lowell Textile School

Mich., Detroit
Cannon, J. L., 30 Prentiss Ave.
Detroit Testing Laboratory, 674 Woodward Ave.
Ware, Elmer, 147 Westminster

Minn., Minneapolis
Zenith Scientific Laboratories, 21 5th St., N.E.

Mo., Kansas City
Kansas City Testing Laboratory, 1013 Grand Ave.

Mo., St. Louis
Goldman Process Co., 1935 Boatman's Bank Bldg.
Jones, Archibald, 4415 W. Pine Blvd.
Kessler, J. J., 224 S. Vandeventer St.

Neb., Omaha
Barr, Wm. M., Union Pacific R. R.
Crowley, Charles F.
Wilton, N. H.
Abbott, W. G., Jr.

N. J., Burlington
United States Cast Iron, Pipe & Foundry Co.

N. J., Carteret
Wheeler Condenser & Engineering Co.

N. J., East Grange
Bicknell, R. S., 402 William St.
Matthews, J. M., 5 Berwyn St.
Myers, Ralph E., 257 Midland Ave.

N. J., Jersey City
Booth Co., L. M., 58 Hudson St.
Koven & Bro., L. O., 154 Ogden Ave.

N. J., Maywood
Tonry, Wm. S., Passaic St. near Elm

N. J., Montclair
Ellis, Carleton
Ellis-Foster Co.
New Jersey Testing Laboratories, 92–98 Greenwood Ave.

N. J., Perth Amboy
Zwingerberger, O. K., 60 State St.

N. J., Rutherford
Schroeder, C. M. Edw.

N. J., Woodcliff-on-Hudson
Bruckmann, Gustav T., 1001 Park Ave.

N. Y., Brooklyn
Johnson, John, Co.
Peckham, Stephen F. 1154 Sterling Place
Ross, Chas., & Sons Co., 141 Classon St.

N. Y., Buffalo
Buffalo Engineering Co., Erie County Bank Bldg.
Buffalo Foundry & Machine Co., 7 Winchester Ave.
Sowers Mfg. Co.
Zaremba Co.
D. S. Morgan Bldg.

N. Y., LeRoy
Jones, Geo. P.

N. Y., New York City
Abbé Engineering Co., 220 Broadway
Abbé, Paul O., New St. & Exchange
Baskerville, Chas., 140th St. and Convent Ave.
Beach-Russ Co., 220 Broadway
Bethlehem Foundry & Machine Co., 149 Broadway
Boeck, P. A., 11 Broadway
Bowman, Walker, 39 Cortlandt St.
Brown, H. E., 115 Broadway
Campbell, C. L., 101 Park Ave.
Carden Process Co., 30 Church St.
Chemical Engineer & Research Corp., 120 Broadway
Chipman Chemical Engineering Co., 95 Liberty St.
Chute, Harry O., 52 E. 41st St.
Cohoe, Walter P., 111 Broadway
Colby, Albert Ladd., 165 Broadway
Combustion Engineering Corp., 11 Broadway
Condict & Co., Alden S., 2 Rector St.
Danne, Harold A., 41 Park Row
Dorr Co., The, 17 Battery Pl.
Dow & Smith, 131 E. 23d St.
Du Vivier, E. H., 30 Church St.
Elliot, A. H., 52 E. 41st St.

Foundation Co., The, Woolworth Bldg.
Frasch, Hans A., 52 Broadway
Fraser, John, 50 Church St.
Freund, H. H., 154 W. 18th St.
Garrigue, Wm., 150 Nassau St.
Gerdés & Co., Inc., 36 Church St.
Grano, E. Vang, 217 Broadway
Greene, Van R. H., 50 Church St.
Greenawalt, John E., 50 E. 42d St.
Grosvenor, Wm. M., 50 E. 41st St.
Hallruk Chemical & Engineering Co., 215 Washington St.
Harris, Frank P., 26 Courtlandt St.
Hercules Engineering Corp., 501 Fifth Ave.
Hirsch, A., 50 E. 41st St.
Hirsh, Dr. J. M., 120 Broadway
Hooper-Falkenar Engineering Co.
International Process Co., 5 Beekman St.
Jacoby, Henry E., 50 Church St.
Joyce, Clarence M., c/o J. Merritt & Matthews, 50 E. 41st St.
Kalbperry Corp., 31 Union Square, W.
Koven, L. O., & Bro., 50 Church St.
Lungwitz, Emil E. (Industrial) 30 Church St.
Lyman Chemical Engineering Co., Ltd., 103 Park Ave.
Mantius, Otto, Woolworth Bldg.
Marchand & Co., Chas., 233 Broadway
Marsh, Clarence W., 101 Park Ave.
Masson, H. J., 2517 Marion Ave.
McIntyre, A. G., 903 World Bldg.
McKenna, Dr. Chas. F., 50 Church St.
Miller, Edward A., 529 W. 45th St.
Murrill, Paul I., 52 E. 41st St.
Oliver, T. C., 30 E. 42d St.
Olsen, John C., Cooper Union
Ormont, Bernard, 106 John St.
Parker, Thos. J., 92 William St.
Peyton, Hunt Co., Inc., 55 Liberty St.
Pfaudler Co., The, 110 W. 40th St.
Pittsburgh Testing Laboratory, 50 Church St.
Provost Engineering Corp., 220 Broadway
Reinhard, Cyril D., 217 Broadway
Research Corporation, 63 Wall St.
Rickets & Co., Inc., 80 Maiden Lane
Roos', August, Son, 429 E. 91st St.
Ruggles, Horace F., Wall and Front Sts.
Sanborn Evaporator Co., 50 Broad St.
Simon, Emil J., 217 Broadway
Sinclair, A. F., Eng. Corp., 40 Church St.
Smith, Francis P., 131 E. 23d St.
Stevens Brothers, 149 Broadway
Tenney & Co., Chas. H., 19 W. 44th St.
Teeple, John E., 50 E. 41st St.
Trent, Walter E., 120 Broadway
Van Emden & Co., H., 145 W. 5th St.
Wallace & Co., J. H., 5 Beekman St.
Westinghouse, Church, Kerr & Co., 37 Wall St.
Whitaker, M. C., 27 William St.
Wiechmann, Ferdinand G., 330 W. 102d St.
Williams, F. M., 101 Park Ave.
Wyckoff, G. H., 115 Broadway

N. Y., Syracuse
Booth, William M., 1st National Bank Bldg.
Porter, J. Edward, Box 785

N. Y., Troy
Mason, William P.

N. Y., Yonkers
Baekeland, Leo H.

N. C., Charlotte
Law & Company, Inc.
Chemical Construction Co.

Ohio, Cleveland
Crowell & Murray, 407 Perry Payne Bldg.
Herron, James H., 2041 E. Third St.
Peck & Co., Francis J., Williamson Bldg.
Smith, Albert W., 1133 Bellflower Rd.
Steel Improvement & Forge Co., 5000 Winsor Ave.

Ohio, Columbus
French & Co., Edward H., 606 Brunson Bldg.
Thiele, Ludwig A., 407–408 Hartman Bldg.
Withroe, Jas. R., Ohio State University

Ohio, East Akron
Knight, Maurice A.

Ohio, Lakewood
Kimmel, H. R., 18725 Sloane Ave.

Ohio, Toledo
Gage, Roscoe M., 206 Rosalind Pl.

Ore., Portland
Geijsbeek Engineering Co., Blake McFall Bldg.
Lazell, E. W., 537 Railway Exchange Bldg.
Olmsted, Frederic A., 630 Northwestern Bank Bldg.

Pa., Coatesville
Coatesville Boiler Works

Pa., Easton
Shimer, Porter W.,

Pa., Fullerton
Lehigh Foundry Co.

Pa., Philadelphia
Eisenbrey, R. Howard, Harrison Bldg.
Electro-Chemical Supply & Engineering Co., 21 S. 12th St.
Goldsmith, Henry F., 909 N. Franklin St.
Hering, Carl, 219 S. 13th St.
Meigs, Curtis G., Stephen Girard Bldg.

Rogers, C. Stanley, Stephen Girard Bldg.
Sadtler, Samuel S., & Sons, 210 S. 13th St.
Salom, Pedro G., Commonwealth Bldg.
Spackman Engineering Co., Henry S., 2024 Arch St.
Wedge, Utley, Stephen Girard Bldg.
Weeks, Chas. A., 11th and Westmoreland St.

Pa., Pittsburgh
Bacon, Raymond F.
Foundation Co., The, Fulton Bldg.
Hall & Paul, Empire Bldg.
Heinz, N. J., 519 Oliver Bldg.
Stahl, K. F., 57th St. & A. V. Ry.

Pa., South Bethlehem
Bethlehem Foundry & Machine Co.
Burrell, G. A., Benedum-Trees Bldg.
Colby, Albert Ladd, 447 Lehigh St.
Richard, J. W., University Park

R. I., Newport
Davoll, David, Jr.

R. I., Peace Dale
Bacon, Nathaniel J.

Tenn., Copperhill
Fairlie, A. M., P. O. Box 73

Texas, Fort Worth
Fort Worth Laboratories, The, 204½ Houston St.

Va., Dante
Callenbach, J. A.

Wash., Seattle
Falkenburg & Laucks, 95 Yesler Way
Newhall, Chas. A., 1810 Westlake Ave.
Pacific Coast Testing Laboratories, 502 Lyon Bldg.

Wis., Madison
Burgess Laboratories, C. F., 1011-1015 E. Washington Ave.
Surface, Henry E.

Wis., Milwaukee
Wisconsin Consulting Laboratories 220 Greenbush St.

VI. LABORATORIES

I. INDUSTRIAL LABORATORIES

Abbe Engineering Co., 220 Broadway, New York City
Abbott Laboratories, Ravenswood, Chicago, Ill.
Abel & Co., E. J., Chicago, Ill.
Acme Dyestuff & Chemical Co., Metuchen, N. J.
Adler Color & Chemical Works, 100 William St., New York City
Aetna Chemical Co., Carnegie, Pa.
Aetna Explosives Co., Inc., 120 Broadway, New York City
Agawan Explosives Co., Inc., 120 Broadway, New York City
Agricultural Chemical Works, Los Angeles, Cal.
Akron Extract & Chemical Co., Akron, Ohio
Akron Varnish Co., Akron, Ohio
Albany Chemical Co., Albany, N. Y.
Albany Rendering Co., Albany, N. Y.
Allan-Pfeiffer Chemical Co., St. Louis, Mo.
Alleghany By-Product Coke Co., McKeesport, Pa.
Alliance Chemical Co., 176 Federal St., Boston, Mass.
Althouse Chemical Co., Reading, Pa.
Alumina Co., Ltd., Inc., Widnes, England
Amalgamated Dyestuff & Chemical Works, 75 Hudson St., New York City
American Agricultural Chemical Co., 2 Rector St., New York City
American Alkali & Acid Co., Bradford, Pa.
American Ammone Co., 220 W. 42d St., New York City
American Ammonia Co., Boston, Mass.
American Aniline Products, Inc., 15 E. 12th St., New York City
American Beet Sugar Co., 32 Nassau St., New York City
American Camphor Refining Co., Boston, Mass.
American Can Co., 120 Broadway, New York City
American Carbolite Co., Duluth, Minn.
American Color Mfg. Co., Passaic, N. J.
American Cyanamid Co., 511 Fifth Ave., New York City
American Diamalt Co., 308 W. 4th St., Cincinnati, Ohio
American Druggists Syndicate, Boston, Mass.
American Gas Furnace Co., 26 John St., New York City
American Indicator Paper Co., 2547 Eastwood Ave., Chicago, Ill.
American Linseed Co., Woolworth Bldg., New York City
American Magnesium Corp., Niagara Falls, N. Y.
American Platinum Works, 225–231 N. J. R. R. Ave., Newark, N. J.
American Pulley Co., 4200 Wissahickon Ave., Philadelphia, Pa.
American Smelting & Refining Co., 120 Broadway, New York City
American Spirits Mfg. Co., Peoria, Ill.
American Steel & Wire Co., Cleveland, Ohio
American Steel Foundries, 332 S. Michigan Ave., Chicago, Ill.
American Sugar Refining Co., 117 Wall St., New York City
American Synthetic Color Co., Stamford, Conn.
American Synthetic Dyes, Inc., 61 Broad St., New York City
American Tar Products Co., 208 S. La Salle St., Chicago, Ill.
American Tobacco Co., 111 Fifth Ave., New York City
American Vanadium Co., Frick Bldg., Pittsburgh, Pa.
American Writing Paper Co., Holyoke, Mass.
American Water Softener Co., 1011 Chestnut St., Philadelphia, Pa.
Anaconda Copper Mining Co., Anaconda, Mont.
Anderson Chemical Co., Wallington, N. J.
Aniline Products Co., Linden, N. J.
Anderson Phosphate & Oil Co., Anderson, S. C.
Ansul Chemical Co., Marinette, Wis.
Antikamnia Chemical Co., St. Louis, Mo.
Apothecaries Hall Co., Waterbury, Conn.
Arabol Mfg. Co., 100 William St., New York City
Arbuckle Bros., Foot of Jay St., Brooklyn, N. Y.
Arlington Co., Wilmington, Del.
Armour & Co., Union Stock Yards, Chicago, Ill.
Armour Fertilizer Works, Union Stock Yards, Chicago, Ill.

Armour Glue Works, Union Stock Yards, Chicago, Ill.
Arnold, Hoffman & Co., Inc., Providence, R. I. New York City: 61 Broadway
Arnold & Marshall Co., South Seekonk, Mass.
Arrow Boiler Compound Co., Commonwealth Bldg., St. Louis, Mo.
Asbestos Shingles, Slate, & Sheathing Co., Ambler, Pa.
Atlantic Dyestuff Co., 88 Ames Bldg., Boston, Mass.
Atlantic Refining Co., 3144 Passyunk Ave., Philadelphia, Pa.
Atlas Mineral Products Co., Lincoln, N. J.
Atlas Powder Co., Wilmington, Del.
Attaux F. E., & Co., 176 Purchase St., Boston, Mass.
Ault & Wiborg Co., Cincinnati, Ohio
Avon Sole Co., Avon, Mass.

Babbitt, B. T., 11 Broadway, New York City
Bailey & Son, William, Wolverhampton, England
Baird & McGuire, Inc., Holbrook, Mass.
Baker & Bro., H. J., 81 Fulton St., New York City
Baker & Co., Inc., Murray & Austin Sts., Newark, N. J.
Baker Chemical Co., J. T., Phillipsburg, N. J.
Baker Co., Franklin, New York City and Philadelphia
Baldwin Locomotive Works, 500 N. Broad St., Philadelphia, Pa.
Baltic Chemical Co., 183 Duane St., New York City
Barber Asphalt Paving Co., Land Title Bldg., Philadelphia, Pa.
Barclay Hobson & Co., Ltd., Manchester, England
Barker Chemical Co., Savannah, Ga.
Barr, Ltd., James G., Glasgow, Scotland
Barrett & Co., N. L., 333 W. Lake St., Chicago, Ill.
Barrett Co., 17 Battery Pl., New York City
Bartlett Collins Glass Co., Sapulpa, Okla.
Bauer Chemical Co., Inc., 30 Irving Pl., New York City: Laboratories: Oneonta, N. Y.
Baugh Chemical Co., Clinton and 11th Sts., Baltimore, Md.
Baugh & Sons Co., 20 S. Delaware Ave., Philadelphia, Pa.
Bausch & Lomb Optical Co., Rochester, N. Y.
Bayer Co., Inc., 117 Hudson St., New York City
Bayway Chemical Co., Elizabeth, N. J.

Beach-Russ Co., 220 Broadway, New York City
Beaver Board Co., Buffalo, N. Y.
Beaverkill Color & Chemical Co., Cook's Falls, N. Y
Berk & Co., Ltd., F. W., 1 Fenchurch Ave., London, E. C., England
Berlin Mills Co., Berlin, N. H.
Berry Bros., Detroit, Mich.
Bethlehem Foundry & Machine Co., 149 Broadway, New York City
Bethlehem Steel Co., South Bethlehem, Pa.
Betts Co., C. G., Spokane, Wash.
Binney & Smith Co., 81 Fulton St., New York City
Bird & Co., J. A. & W., Boston, Mass.
Bischoff & Co., Inc., C., 451-53 Washington St., New York City
Bishop & Co., Platinum Works, J., Malvern, Pa.
Blackstone Chemical Works, 531 Grosvenor Bldg., Providence, R. I.
Blanke-Baer Chemical Co., St. Louis, Mo.
Blair, Campbell & McLean, Ltd., Woodville St., Govan, Glasgow, Scotland
Block Chemical Laboratories, 2085 La Salle St., Chicago, Ill.
Bloede Co., Victor G., Baltimore, Md.
Booth Co., Z. M., 120 Center St., Nutley, N. J.
Boston Belting Co., 84 Linden Park St., Boston, Mass.
Bound Brook Chemical Corp., 82 Beaver St., New York City
Bowker Chemical Co., 60 Trinity Pl., New York City
Bradford Dyeing Association, Bradford, R. I.
Braun Corp., 363 New High St., Los Angeles, Cal.
Brewer & Co., Worcester, Mass.
Brier Hill Steel Co., Youngstown, Ohio
Briggs Chemical Works, Amherst, Ohio
Bradley & Vrooman Co., 2629-2640 Dearborn St., Chicago, Ill.
Brandes Co., Inc., Eighth Ave. and 34th St., New York City
Brunswick Mfg. Co., 1 Peace St., New Brunswick, N. J.
Brunswig Drug Co., 501 N. Main St., Los Angeles, Cal.
Bosson & Lane, Quincy, Mass.
Bower Chemical Mfg. Co., Henry, 29th St. and Gray's Ferry Rd., Philadelphia, Pa.
Buffalo Foundry & Machine Co., Ferry and Fillmore Aves., Buffalo, N. Y.
Buffalo Union Furnace Co., Buffalo, N. Y.

Burdett Mfg. Co., 309–319 St. Johns Court, Chicago, Ill.
Burroughs & Co., Jas. S., 53–58 Pine St., New York City
Burns Supply Co., E. Reed, 40–42 Withers St., Brooklyn, N. Y.
Burroughs Welcome & Co., Snow Hill Bldgs., London, England
Bush Co., Chas. S., Providence, R. I.
Bush & Co., W. J., 100 William St., New York City
Butterworth-Judson Corp., 61 Broadway, New York City. Works: Newark, N. J., Boston, Mass., Baltimore, Md.
Butler Chemical Co., 25 Beaver St., New York City
By-Products Coke Corp., Chicago, Ill.
Cabot, Inc., Samuel, 141 Milk St., Boston, Mass.
Cadillac Chemical Co., Cadillac, Mich.
Calco Chemical Co., Woolworth Bldg., New York City
California Aniline & Chemical Co., 33 Clementina St., San Francisco, Cal.
California Ink Co., San Francisco, Cal.
Calman & Co., Emil, 100 William St., New York City
Calvert Aniline & Chemical Co., 28 W. 3d St., Cincinnati, Ohio
Cambria Steel Co., Philadelphia, Pa.
Camden Chemical Co., 42 Broadway, New York City
Camden Coke Co., Newark, N. J.
Cameron Powder Mfg. Co., Emporium, Pa.
Campbell, C. W., 11 Cliff St.
Campbell & Co., John, 75 Hudson St., New York City
Canadian Ammonia Co., Ltd., Toronto, Canada
Canadian Brake Shoe Co., Sherbrooke, Can.
Canadian Consolidated Rubber Co., Ltd., 201 Inspector St., Montreal, Canada
Canadian Electro-Products Co., Ltd., Power Bldg., Montreal, Canada
Canton Corn Products Co., Clinton St. and Fourth Ave., Baltimore, Md.
Capitol Chemical Co., 621 Alabama Ave., Congress Heights, Washington, D. C.
Carborundum Co., Niagara Falls, N. Y.
Carnegie Steel Co., Pittsburgh, Pa.
Carnick Co., G. W., 23–27 Sullivan St.
Carpenter Steel Co., Front and Exeter Sts., Reading, Pa.
Carus Chemical Works, La Salle, Ill.
Casein Mfg. Co., 11 Pine St., New York City
Cassella Color Co., 182 Front St., New York City
Castner Electrolytic Alkali Co., Niagara Falls, N. Y.
Catalytic Chemical Co., Berkeley, Cal.
Caulk Co., L. D., Milford, Del.
Celite Products Co., 11 Broadway, New York City
Central Dyestuff & Chemical Co., Plum Point Lane, Newark, N. J.
Central Indiana Gas Co., Muncie, Ind.
Central Iron & Coal Co., Hott Ala.
Central Scientific Co., 460 E. Ohio St., Chicago, Ill.
Century Colors Corp., 182 Front St., New York City
Champion Chemical Works, 19 W. Austin Ave., Chicago, Ill.
Chatfield Mfg. Co., Cincinnati, Ohio
Chattanooga Gas & Coal Products Co., Chattanooga, Tenn.
Chemical Co. of America, Inc., 28 Platt St., New York City
Chemical Construction Co., Trust Bldg., Charlotte, N. C.
Chemical Products Co., 93 Broad St., Boston, Mass.
Chemical Products Co., 612–616 Majestic Bldg., Denver, Colo.
Chicago Copper & Chemical Co., Western Union Bldg., Chicago, Ill.
Chicago Wheel & Mfg. Co., 1101 W. Monroe St., Chicago, Ill.
Chili Exploration Laboratories, 202d St. and 10th Ave., New York City
Chiris Antoine Co., 18 Platt St., New York City
Chromos Chemical Co., Inc., Aeolian Hall, New York City
Church & Dwight Co., 27 Cedar St., New York City
Citizens Gas Co., Majestic Bldg., Indianapolis, Ind.
Clare Mfg. Co., 8th Ave. and 34th St., New York City
Clayton & Jowett, Ltd., Liverpool, England
Clawson Co., 240 Chestnut St., Philadelphia, Pa.
Cleveland Brass Mfg. Co., 4606–4700 Hamilton Ave., Cleveland, Ohio
Cleveland-Cliffs Iron Co., Rockefeller Bldg., Cleveland, Ohio
Coal Products Co., Aurora, Ill.
Coignet Chemical Products Co., Inc., 17 State St., New York City
Colburn Co., A., 110 N. 2d St., Philadelphia, Pa.
Colgate & Co., Jersey City, N. J.
Colorado Fuel & Iron Co., Boston Bldg., Denver, Colo.
Columbia Chemical Constructive Co., Ft. Washington, Pa.
Columbia Chemical Co., Frick Bldg., Pittsburgh, Pa.
Columbia Chemical Construction Co., Fort Washington, Pa.

Commercial Acid Co., Boatman's Bank Bldg., St. Louis, Mo.
Commercial Chemical Co., 212 Essex St., Chicago, Ill.
Commonwealth Color & Chemical Co., Butler St., Brooklyn, N. Y.
Commonwealth Glue Co., 40 N. Market St., Boston, Mass.
Condensite Co. of America, Bloomfield, N. J.
Consolidation Coal Co., Fairmont, W. Va.
Contact Process Co., P. O. Box 98, Buffalo, N. Y.
Cooper & Co., Chas., 194 Worth Sts., New York City. Works: Newark, N. J.
Cooper & Nephews, William, 152–154 W. Huron St., Chicago, Ill.
Cooper Glue Factory, Peter, 28th St. and 11th Ave., New York City
Consolidated Dental Mfg. Co., 130 Washington Pl., New York City
Consumers Refining Co., 1030 Fort Dearborn Bank Bldg., Chicago, Ill.
Corby Co., Langdon Station, Washington, D. C.
Cornbrook Chemical Co., Ltd., Stockport, England
Corn Products Refining Co., 17 Battery Pl., New York City
Corning Glass Works, Corning, N. Y.
Corrizo Extract Co., 211–215 W. 20th St., New York City
Cosmic Aniline Works, Inc., 8 W. Broadway, New York City
Crane Co., 836 S. Michigan Ave., Chicago, Ill.
Cramp & Sons Ship & Engine Building Co., Wm., Richmond and Norris Sts., Philadelphia, Pa.
Cremoline Disinfecting Co., 17 S. Main St., St. Louis, Mo.
Crucible Steel Co. of America, Pittsburgh, Pa.
Dahlstrom Metallic Door Co., Jamestown, N. J.
Daigger & Co., A., 54 W. Kinzie St., Chicago, Ill.
Danforth Chemical Co., Willard St., Leominster, Mass.
Davis Chemical Co., 120 Broadway, New York City
Davison Chemical Co., South and German Sts., Baltimore, Md.
Dearborn Chemical Co., McCormick Bldg., Chicago, Ill.
Dearborn Chemical Co., Smithy Bridge, near Rochdale, England
Dehls & Stein, Inc., 408 W. 13th St., New York City
Dicks, David Co., Inc., 302 Broadway, New York City
De Laval Separator Co., 165 Broadway, New York City
Denver Chemical Mfg. Co., 57 Laight St., New York City
Detroit Alkaloidal Co., 278 Bush St., Detroit, Mich.
Detroit Copper & Brass Rolling Mills, 95 Clark Ave., Detroit, Mich.
Detroit Heating & Lighting Co., Detroit, Mich.
Detroit Organic Chemical Co., Dime Bank Bldg., Detroit, Mich.
Detroit Range Boiler Co., 607–623 24th St., Detroit, Mich.
Diamond Crystal Salt Co., St. Clair, Mich.
Didier-March Co., P. O. Box 327, Perth Amboy, N. J.
Digestive Ferments Co., Detroit, Mich.
Dill & Collins Co., Richmond and Tioga Sts., Philadelphia, Pa.
Dixon Crucible Co., Joseph, Jersey City, N. J.
Doggett, Stanley, Cliff and John Sts., New York City
Doherr, Grimm & Co., Inc., 87 Gold St., New York City
Dorr Co., The, 17 Battery Pl., New York City. Also Denver, Colo.
Dover By-Product Coke Co., Cleveland, Ohio
Douglas Co., Cedar Rapids, Iowa
Dow Chemical Co., Midland, Mich.
Drug & Dyestuff Corporation, 120 Broadway, New York City
Dubarry et Cie., 81 Brompton Rd., London, S. W., England
Du Pont Chemical Works, 120 Broadway, New York City
Du Pont de Nemours & Co., E. I., du Pont Bldg., Wilmington, Del.
Du Pont Fabrikoid Co., 120 Broadway, New York City
Duriron Castings Co., 90 West St., New York City
Dwight Mfg. Co., 14 S. Jefferson St., Chicago, Ill.
Dye Products & Chemical Co., Inc., 200 Fifth Ave., New York City
Eagle Color & Chemical Co., 4 Cedar St., New York City
East Jordan Chemical Co., East Jordan, Mich.
Eastern Chemical Works, Elmwood, Conn.
Eddy Co., E. B., Hull, Canada
Eddy Chemical Co., 1189 Harrison Ave., Cincinnati, Ohio
Edgar Zinc Co., Cherryvale, Kansas
Edgertyn Aniline Corp., 118 William St., New York City
Edison Portland Cement Co., Stewartsville, N. J.

Edison, Inc., Thomas A., West Orange, N. J.
Eimer & Amend, 205–211 Third Ave., New York City
Eissing Chemical Co., 225 Fifth Ave., New York City
Ekenberg Co., Cortland, N. Y.
Electrical Chemical Works, 797 Lexington Ave., Brooklyn, N. Y.
Electro Chemical Co., 111 Court St., Dayton, Ohio
Electrolytic Oxy-Hydrogen Laboratories, Inc., 15 William St., New York City
Electrolytic Zinc Co., Inc., 16th St. and 2d Ave., Canton, Baltimore, Md. (P. O. Address) Colgate, Baltimore Co., Md.
Electron Chemical Co., 120 Exchange St., Portland, Me.
Eli Lilly & Co., Indianapolis, Ind.
Empire Chemical Co., 149 Broadway, New York City
Engelhard, Charles, 30 Church St., New York City
Exchange By-Products Co., Corona, Cal.
Exolon Co., 156 Sixth St., Cambridge, Mass.
Fairbank Co., N. K., 143 Dearborn St., Chicago, Ill.
Fairmont Chemical Co., Fairmont, W. Va.
Farmers Fertilizer Co., Columbus, Ohio
Fassett Co., C. M., 209 N. Wall St., Spokane, Wash.
Faultless Rubber Co., Ashland, Ohio
Federal Chemical Co., Louisville, Ky.
Federal Dyestuff & Chemical Corporation, Kingsport, Tenn.
Fels & Co., Philadelphia, Pa.
Ferguson Bros., 109 Chestnut St., Philadelphia, Pa.
Fisk Rubber Co., Chicopee Falls, Mass.
Fleischmann Mfg. Co., Peekskill, N. Y.
Fleming Chemical Co., 1711 Crawford Rd., Cleveland, Ohio
Florasynth Laboratories, Inc., 231 Pearl St., New York City
Florida Wood Products Co., Jacksonville, Fla.
Ford Co., The J. B., Wyandotte, Mich.
Franco-American Chemical Works, Carlstadt, N. J.
Franco-Swiss Dyes, Inc., 61 Broadway, New York City
Frank Tea & Spice Co., Cincinnati, Ohio
Fraser Tablet Co., 453 19th St., Brooklyn, N. Y.
Freeport Sulphur Co., 61 Broadway, New York City
Fries & Bros., Alex., 312 E. 2d St., Cincinnati, Ohio
Fritzsche Bros., 82–84 Beekman St., New York City
Galbraith Chemical Co., 5139 Germantown Ave., Philadelphia, Pa.
Gas Oil Co. of Indiana, 1013 Peoples Gas Bldg., Chicago, Ill.
Gazzolo Drug & Chemical Co., 119-123 S. Green St., Chicago, Ill.
Geisenheimer & Co., 134 Cedar St., New York City
Gemmill & Co., Wm. N,, 142 Queen St., Glasgow, Scotland
General Ceramics Co., 50 Church St., New York City
General Chemical Co., 5 Broad St., New York City
General Electric Co., Schenectady, N. Y.
General Filtration Co., Cutler Bldg., Rochester, N. Y.
General Petroleum Corporation, Los Angeles, Cal.
General Roofing Mfg. Co., General Office, St. Louis, Mo.
Genesee Chemical Co., Genesee, Pa.
Genessee Pure Food Co., Le Roy, N. Y.
Geophysical Laboratory, Carnegie Institute, Washington, D. C.
Gibbs Preserving Co., Baltimore, Md.
Gilpin, Langdon & Co., Inc., 300–302 W. Lombard St., Baltimore, Md.
Glidden Varnish Co., Cleveland, Ohio
Globe Chemical Co., 1135 Regent Ave., Cincinnati, Ohio
Globe Soap Co., 3d and Walnut Sts., Cincinnati, Ohio
Goodrich Co., B.F., Akron, Ohio
Goodyear Tire & Rubber Co., Akron, Ohio
Graham, Hinkley & Co., 135 Front St., New York City
Grant Chemical Co., J. C., East St. Louis, Ill.
Grasselli Chemical Co., Cleveland, Ohio
Greiner Co., Emil, Fulton and Cliff Sts., New York City
Gulf States Steel Co., Birmingham, Ala.
Hagstoz & Son, T. B., 709 Sansom St., Philadelphia, Pa.
Hall, George D. A., Manchester, England
Hall Van Gorden Co., 1382 W. 9th St., Cleveland, Ohio
Halsey Bros., Co., 30 N. Wabash Ave., Chicago, Ill.
Hamilton-Otto Coke Co., Hamilton, Ohio
Hansen's Laboratory, Inc., Chr., Little Falls, N. Y.
Harbison Walker Refractories Co., Pittsburgh, Pa.
Harlem Chemical Co., 1357 Park Ave., New York City

Harriman Food Research Laboratory, 527 Fifth Ave., New York City
Harrison Works, 35th and Gray's Ferry Rd., Philadelphia, Pa.
Harrison Safety Boiler Works, 17th St. and Alleghany Ave., Philadelphia, Pa.
Harshaw, Fuller & Goodwin Co., 100 William St., New York City. Also Cleveland, Ohio
Hartford Laboratory Co., Inc., Hartford, Conn.
Hawaiian Fertilizer Co., Ltd., 14 S. Queen St., Honolulu, Hawaii
Heald & Co., Inc., John H., Lynchburg, Va.
Hegeler Zinc Co., Danville, Ill.
Heil Chemical Co., Henry, 210-214 S. Fourth St., St. Louis, Mo.
Hellenic Chemical & Color Co., Inc., 427 W. 13th St., New York City
Heller & Merz Co., 505 Hudson St., New York City
Hemingway, Inc., Frank, 115 Broadway, New York City
Hercules Powder Co., Wilmington, Del.
Herman & Herman, 6 Church St., New York City
Heyden Chemical Works, 135 William St., New York City
Hill Extract & Flavoring Co., Houston, Texas
Hires Condensed Milk Co., 913 Arch St., Philadelphia, Pa.
Hoffman-LaRoche Chemical Works, 440 Washington St., New York City
Holland-St. Louis Sugar Co., Decatur, Ind.
Holland Aniline Co., Holland, Mich.
Holliday-Kemp Co., 90 William St., New York City
Holliday-Read & Son, 160 Franklin St., New York City
Holz, Herman A., 1 Madison Ave., New York City
Hospital Supply Co., & Watters Laboratories, Consolidated, 55 Fifth Ave., New York City
Hooker & Co., J. L., 314 N. 3d St., Philadelphia, Pa.
Hooker Electrochemical Co., 40 Wall St., New York City
Hord Color Products Co., Sandusky, Ohio
Horlick, William, Jr., Horlick's Malted Milk Co., Racine, Wis.
Horn Co., A. C., Horn Bldg., Long Island City, N. Y.
Horn Hollander Co., Horn Bldg., Long Island City, N. Y.
Hoskins Mfg. Co., Detroit, Mich.
Houghton & Co., E. F., Third, American and Somerset Sts., Philadelphia, Pa.
Hoyt Metal Co., Boatmen's Bank Bldg., St. Louis, Mo.
Hub Dyestuff & Chemical Co., 595 S. 7th St., South Boston, Mass.
Huron Milling Co., Harbor Beach, Mich.
Hurty-Peck & Co., 222-224 E. Ohio St., Indianapolis, Ind.
Illinois Steel Co., 208 S. La Salle St., Chicago, Ill.
Imperial Color Works, Inc., Glen Falls, N. Y.
Import Chemical Co., 276 Water St., New York City
Independent Chemical Co., 72 Front St., New York City
Independent Salt Co., 44 Whitehall St., New York City
Industrial Chemical Co., 200 Fifth Ave., New York City
Industrial Chemical Co., Inc., Box 1288, Providence, R. I.
Industrial Works, Bay City, Mich.
Indiana Coke & Gas Co., Terre Haute, Ind.
Inland Steel Co., Chicago, Ill.
Innis, Speiden & Co., Inc., 40 Cliff St., New York City
International Agricultural Corporation, 165 Broadway, New York City
International Oxygen Co., 115 Broadway, New York City
International Silver Co., Meriden, Conn.
Interstate Chemical Co., 667 Garfield Ave., Jersey City, N. J.
Irondequoit Wine Co., Rochester, N. Y.
Jacksonville Chemical Mfg. Co., Jacksonville, Fla.
Jaeck Co., Louis, 257 Front St., New York City
Jarecki Chemical Co., Cincinnati, Ohio
Jamaca Dyewood & Chemical Co., 50 Church St., New York City
Jeffry Mfg. Co., Columbus, Ohio
Johnson Co., H. A., 221 State St., Boston, Mass.
Johnson & Johnson, New Brunswick, N. J.
Joslin-Schmidt Co., The, 3223 Spring Grove Ave., Cincinnati, Ohio
Justrite Mfg. Co., 2061 Southport Ave., Chicago, Ill.
Kelly Springfield Tire Co., Broadway and 57th St., New York City
Kendall Mfg. Co., Providence, R. I.
Keystone Steel & Wire Works, Peoria, Ill.
King & Co., E. & F., 367-369 Atlantic St., Boston, Mass.
Kingsbury, H. P. D., Redlands, Cal.
King Chemical Co., Bound Brook, N. J.
Kirk & Co., J. S., 106 E. Austin Ave., Chicago, Ill.

Klipstein & Co., A., 644 Greenwich St., New York City
Knight, Maurice A., East Akron, Ohio
Knowles-Bradley Co., 88 Wall St., New York City
Kohnstamm & Co., H., 87 Park Pl., New York City
Kolynos Co., 130 Bristol St., New Haven, Conn.
Koven & Bro., L. O., 154 Ogden Ave., Jersey City, N. J.
Koppers Co., H., 511 Wood St., First National Bank Bldg., Pittsburgh, Pa.
Kress & Owen Co., 361 Pearl St., New York City
Kullman-Salz & Co., Inc., Benicia, Cal., and Wells Fargo Express Bldg., San Francisco, Cal.
La Belle Iron Works, Steubenville, Ohio
Laboratory Materials Co., 7404-6 Calumet Ave., Chicago, Ill.
Lackawanna Chemical Co., Olean, N. Y.
Lackawanna Steel Co., Lackawanna, N. Y.
Laclede Gas Light Co., St. Louis, Mo.
Laclede Christy Clay Products Co., 1673 Railway Exchange Bldg., St. Louis, Mo.
Lakeland Phosphate Co., Lakeland, Fla.
Lakewood Chemical Co., Citizens Bldg., Cleveland, Ohio
Lamar & Bros., Inc., John S., 80 Maiden Lane, New York City
L. & R. Organic Products Co., Inc., 8 Gold St., New York City
Lambert Pharmacal Co., 2101 Locust St., St. Louis, Mo.
Lautz Bros. & Co., 44 Hanover St., Buffalo, N. Y.
Lavino & Co., E. J., Bullitt Bldg., Philadelphia, Pa.
Lehigh Foundry Co., Fullerton, Pa.
Lenning & Co., Charles, 112 S. Front St., Philadelphia, Pa.
Lennox Chemical Co., 1201 E. 55th St., Cleveland, Ohio
Lever Bros., Co., Cambridge, Mass.
Larkin Co., 680 Seneca St., Buffalo, N. Y.
Lewis Mfg. Co., F. J., 2500 S. Robey St., Chicago, Ill.
Lieber & Co., J., 14 Platt St., New York City
Lignum Chemical Works, Brooklyn, N. Y.
Lindsay Light Co., 161 E. Grand Ave., Chicago, Ill.
Linton Gas Co., Linton, Ind.
Lister Agricultural Chemical Works, Newark, N. J.
Little, Inc., Arthur D., 93 Broad St., Boston, Mass.
Lower California Chemical Co., Los Angeles, Cal.
Lucas & Co., Inc., John, Gibbsboro, N. J.
Lungwitz, Emil E., 30 Church St., New York City
Lunkenheimer Co., Cincinnati, Ohio
MacAndrews & Forbes Co., 3rd St. and Jefferson Ave., Camden, N. J.
Madderton & Co., Lyd., Loughton, Essex, England
Magnolia Metal Co., 115 Bank St., New York City
Mallinckrodt Chemical Works, St. Louis, Mo.: 30-32 Platt St., New York City
Maltbie Chemical Co., 250 High St., Newark, N. J.
Malt-Diastase Co., 79 Wall St., New York City
Manville Co., Providence, R. I.
Marden, Orth & Hastings Corp., 61 Broadway, New York City
Marx & Rawolle, Inc., 100 William St., New York City: Factory: 9 Van Brunt St., Brooklyn, N. Y.
Mathieson Alkali Co., Inc., Saltville, Va.
May & Co., Inc., Frank L., 99 John St., New York City
McCord Mfg. Co., 2587-2637 E. Grand Blvd., Detroit, Mich.
McCormick & Co., Baltimore, Md.
McKean Chemical Co., Williamsport, Pa.
McLaughlin Chemical Works, Inc., 1715 5th St., S. E., Minneapolis, Minn.
Merck & Co., 45 Park Pl., New York City: Factory, Rahway, N. J.
Merrell-Soule Co., Syracuse, N. Y.
Merrimac Chemical Co., 40 Central St., Boston, Mass.
Metal & Thermit Corp., 120 Broadway, New York City
Meth-O-Lene Co., Inc., 81 Fulton St., New York City
Metz Laboratories, H. A., 122 Hudson St., New York City
Michigan Alkali Co., Ford Bldg., Detroit, Mich.
Michigan Ammonia Works, Meldrum St., Detroit, Mich.
Michigan Carbon Works, Carbon and Forman Aves., Detroit, Mich.
Michigan Chemical Co., Bay City, Mich.
Michigan Drug Co., Detroit, Mich.
Middlesex Aniline Co., Inc., 149 Broadway, New York City
Midland Chemical Co., 80 E. Jackson Blvd., Chicago, Ill.
Midvale Steel Co., Widener Bldg., Philadelphia, Pa.
Milligan & Higgins Glue Co., 222 Front St., New York City
Milwaukee Coke & Gas Co., Milwaukee, Wis.
Milwaukee Locomotive Mfg. Co., Milwaukee, Wis.

Miner-Edgar Co., 52-62 Warren St., Brooklyn, N. Y.
Minnesota By-Product Coke Co., St. Paul, Minn.
Minnestoa Steel Co., Duluth, Minn.
Missouri Chemical Works, Cincinnati, Ohio
Mojonnier Bros. Co., 833 W. Jackson Blvd., Chicago, Ill.
Monahan Antiseptic Co., 166-172 Curtis St., Chicago, Ill.
Monarch Chemical Co., 141 Broadway, New York City
Monmouth Chemical Co., Keyport, N. J., Wall St., New York City
Monroe Chemical Co., Fairport, N. Y.
Monroe Color & Chemical Co., Quincy, Ill.
Monsanto Chemical Works, 1800 S. Second St., St. Louis, Mo.
Montcalm Chemical Works, Indianapolis, Ind.
Mont Color & Chemical Works, Monticello, N. Y.
Moore Bros. Co., Elizabeth, N. J.
Morrill & Co., Geo. H., Norwood, Mass.
Morris & Co., Chicago, Ill.
Mott Iron Works, The J. L., 118 Fifth Ave., New York City
Mountain Copper Co., Ltd., 332 Pine St., San Francisco, Cal.
Mulford & Co., H. K., Philadelphia, Pa.
Munning Loeb Co., Matawan, N. J.
Mutual Chemical Co. of America, 55 John St., New York City
National Ammonia Co., St. Louis, Mo., Philadelphia, Pa., New York, N. Y.
National Aniline & Chemical Co., 244 Madison Ave., New York City
National Biscuit Co., New York City
National Brake & Electric Co., Milwaukee, Wis.
National Brewers Academy & Consulting Bureau, 420 W. 23rd St., New York City
National Carbon Co., Cleveland, Ohio
National Chemical Co., Syracuse, N. Y.
National Gum & Mica Co., 59th St. and 11th Ave., New York City
National Lamp Works of General Electric Co., E. 152d St., Cleveland, Ohio
National Lead Co., 111 Broadway, New York City
National Oil Products Co., Harrison, N. J.
National Tube Co., Pittsburgh, Pa.
National Vaccine & Anti-Toxin Laboratories, Washington, D. C.
National Zinc Co., 61 Broadway, New York City Works: Kansas City, Mo.
Naugatuck Chemical Works, Inc., Naugatuck, Conn.
Neponset Color Co., Hyde Park, Boston, Mass.
New Brunswick Chemical Co., New Brunswick, N. J.
New England Confectionery Co., 253 Summer St., Boston, Mass.
New England Fuel & Transportation Co., 111 Devonshire St., Boston, Mass.
New Haven Gas Light Co., New Haven, Conn.
New Jersey Zinc Co., 55 Wall St., New York City
New Orleans Acid & Fertilizer Co., Gretna, La.
Newport Chemical Works, Inc., First National Bank Bldg., Milwaukee, Wis.
Newport Turpentine & Rosin Co., Pensacola, Fla.
New York Color & Chemical Co., Inc., 212 Pearl St., New York City
New York Quinine & Chemical Works, 114 William St., New York City
New York Sugar Trade Laboratory, 80 South St., New York City.
Newton Chemical Co., Olean, N. Y.
Newsholrine, G. T. W., Ltd., Sheffield, England
Niagara Alkali Co., Niagara Falls, N. Y.
Niagara Coke Corporation, 6 Church St., New York City
Nichols Copper Co., 25 Broad St., New York City
Nitrated Chemicals Co., Kingston, N. Y.
North American Chemical Co., Bay City, Mich.
North Shore Gas Co., Waukegan, Ill.
Northwestern Chemical Co., Marietta, Ohio
Northwestern Iron Co., Milwaukee, Wis.
Northwestern States Portland Cement Co., Mason City, Iowa.
Norton Co., New Bond St., Worcester, Mass.
Norton Laboratories, 296 Madison Ave., New York City
Norwich Chemical Co., East Smethport, Pa.
Norwich Pharmacal Co., Norwich, N, Y.
Oakes Mfg. Co., Long Island City, N. Y.
Oakland Chemical Co., 10 Astor Pl., New York, N. Y.
Obex Co., The, Marietta, Ohio
Ohio Chemical & Mfg. Co., 1177 Marquette Rd., Cleveland, Ohio
Ohio Salt Co., Rittman, Ohio
Oliver Chemical Co., Mount Eden, Cal.
Organic Products Corporation, 469 State St., New York City
Otto Chemical Co., Burrows, McKean Co., Penn.
Pacific Chemical Co., Los Angeles, Cal.
Pacific Coast Borax Co., 100 William St., New York City

Pacific Coast Coal Co., Reuton, Wash.
Pacific Electro Metals Co., 415 Balboa Bldg., San Francisco, Cal.
Pantasote Leather Co., Passaic, N. J.
Parke, Davis & Co., Detroit, Mich.
Patch Co., E. L., Montrate Ave., Stoneham, Mass.
Peacock Chemical Co., 112 N. 2d St., St. Louis, Mo.
Peerless Chemical Co., 506 W. 42d St., New York City
Peerless Color Co., Bound Brook, N. J.
Penn Chemical Works, 1322 Washington Ave., Philadelphia, Pa.
Pennsylvania Color Mfg. Co., 248 Chestnut St., Philadelphia, Pa.
Pennsylvania Salt Mfg. Co., Widener Bldg., Philadelphia, Pa.
Perfenol Products Co., Inc., 39 W. 38th St., New York City
Permutit Co., 440 Fourth Ave., New York City
Perolin Co. of America, Woolworth Bldg. New York City
Pfaudler Co., The, Rochester, N. Y.
Pfeiffer Chemical Co., 500 N. Commercial St., St. Louis, Mo.
Pfister & Vogel Leather Co., Milwaukee, Wis.
Pfizer & Co., Charles, 81 Maiden Lane, New York City
Philadelphia Drying Machinery Co., 6721 Germantown Ave., Philadelphia, Pa.
Philadelphia Quartz Co., 121 S. Third St., Philadelphia, Pa.
Philadelphia Suburban Gas & Electric Co., Chester, Pa.
Phoenix Chemical Co, Ltd., Accrington, England
Pittsburgh By-Product Coke Co., Pittsburgh, Pa.
Pittsburgh Plate Glass Co., Pittsburgh, Pa.
Pompeian Co., The, Coca Cola Bldg., Baltimore, Md.
Potter Drug & Chemical Corporation, 135 Columbus Ave., Boston, Mass.
Powers-Weightman-Rosengarten Co., Philadelphia, Pa.
Primos Chemical Co., Primos, Pa.
Proctor & Gamble Distributing Co., Cincinnati, Ohio
Provident Chemical Works, 8011 Idaho St., St. Louis, Mo.
Provost Engineering Corporation, 220 Broadway, New York City
Pumpherson Oil Co., Ltd., The, Glasgow, Scotland
Quabaug Rubber Co., N. Brookfield, Mass.
Quaker City Rubber Co., 629 Market St., Philadelphia, Pa.
Raritan Copper Works, Perth Amboy, N. J.
Raymond Lead Co., 735 S. Washtenaw Ave., Chicago, Ill.
Reade Bros. & Co., Ltd., Wolverhampton, England
Reardon Glue Mfg. Co., St. Louis, Mo.
Redmanol Chemical Products Co., 636 W. 22nd St., Chicago, Ill.
Reliance Aniline & Chemical Co., 100 Broadway, New York City
Republic Chemical Co., Inc., Nevill Island, Pittsburgh, Pa.
Republic Flow Meters Co., 565 W. Washington Blvd., Chicago, Ill.
Republic Iron & Steel Co., Youngstown, Ohio
Richmond Guano Co., 705 Travelers Bldg., Richmond, Va.
River Furnace Co., Cleveland, Ohio
Riverside Acid Works, Warren, Pa.
Riverside Metal Co., Riverside, N. J.
Robinson & Co., H. F., Manchester, England
Roessler & Hasslacher Co., 100 William St., New York City
Rogers & Hubbard Co., Middletown, Conn.
Röhn & Haas, 40 North Fork Ct., Philadelphia, Pa.
Roller-Smith Co., 233 Broadway, New York City
Rollin Chemical Co., Inc., Charleston, W. Va.
Rome Soap Mfg. Co., Rome, N. Y.
Rosentwist & Gorner, 26 India Sq., Boston, Mass.
Royal Crown Soaps, Ltd., Winnipeg, Canada
Royster Guano Co., F. S., Norfolk, Va.
Rueckheim Bros. & Eckstein, Peoria and Harrison Sts., Chicago, Ill.
Rumford Chemical Works, Providence, R. I.
Russia Cement Co., Essex Ave., Gloucester, Mass.
Rust Resisting Black Finish Co., Bridgeport, Conn.
Sarco Co., Inc., Woolworth Bldg., New York City
Sargent Steam Meter Co., 2835 Armitage Ave., Chicago, Ill.
Sauer Co., C. F., Richmond, Va.
Schieren Co., Chas. A., New York City
Scientific Materials Co., 711–719 Forbes St., Pittsburgh, Pa.
Scott & Co., Ernest, P. O. Box 259, Fall River, Mass.
Scovill Mfg. Co., Waterbury, Conn.
Seaboard By-Product Coke Co., Jersey City, N. J.
Sears, Roebuck & Co., Chicago, Ill.
Seattle Lighting Co., Seattle, Wash.

Segal & Co., Inc., George H., 95 William St., New York City
Sellers & Co., William, 1600 Hamilton St., Philadelphia, Pa.
Semet-Solvay Co., Syracuse, N. Y.
Seydel Mfg. Co., Forrest and Holliday Sts., Jersey City, N. J.
Sharp & Dohme, Howard and Pratt Sts., Baltimore, Md.
Sharp, Ltd., J. B. & W. R., Edenfield, England
Sherwin Williams Co., Cleveland, Ohio
Shinola Co., 8-28 Jay St., Rochester, N. Y.
Simeon & Elting, 93 Nassau St., New York City
Sinclair & Valentine Co., 611 W. 119th St., New York City
Sloan & Russell, Inc., 132 Nassau St., New York City
Smith, Kline & French Co., 429-35 Arch St., Philadelphia, Pa.
Snyder Electric Furnace Co., 53 W. Jackson Blvd., Chicago, Ill.
Sociedad Anónima Monegal, Barcelona, Spain. New York City: Bichels & Techow, 98 Maiden Lane
Solvay Process Co., Syracuse, N. Y.
Sommers & Sons Co., Galena and 31st Sts., Milwaukee, Wis.
Southern Cotton Oil Co., 24 Broad St., New York City
Southern Fertilizer & Chemical Co., Savannah, Ga.
Southern Oil & Chemical Co., Savannah, Ga.
Sowers Mfg. Co., 1302 Niagara St., Buffalo, N. Y.
Spence & Sons, Ltd., Peter, Manchester, England
Spencer Lens Co., 440 Niagara St., Buffalo, N. Y.
Sperry & Co., D. R., Batavia, Ill.
Spreckels Sugar Co., Spreckels, Cal.
Squibb & Sons, E. R., 80 Beekman St., New York City
Stamford Mfg. Co., 82 Wall St., New York City
Standard Chemical Co., Tacoma, Wash.
Standard Color Works, 55 Liberty St., New York City
Standard Distilling & Distributing Co., 27 William St., New York City
Standard Glue Co., 455 Broadway, New York City
Standard Oil Co., 26 Broadway, New York City
Standard Tablet Co., Ltd., Nove, Sussex, England
Star Brass Works, 3114-22 Carroll Ave., Chicago, Ill.
St. Lawrence Talc Co., 7 E. 42d St., New York City
Stanley Aniline Chemical Works, Lock Haven, Pa.
Stanley, John T., 650 W. 30th St., New York City
Stauffer Chemical Co., Chauncey, N. Y., Monogahela City, N. Y.
Stoelting Co., C. H., 3037-47 Carroll Ave., Chicago, Ill.
Stokes Machine Co., F. J., 17th and Cambria Sts., Philadelphia, Pa.
Stresen-Reuter & Hancock, Inc., 1501 S. Peoria St., Chicago, Ill.
Stroud & Co., E. H., 928 Fullerton Ave., Chicago, Ill.
Stuart & Co., C H., Newark, N. J.
Sturtevant Mill Co., Harrison Sq., Boston, Mass.
Superior Products Co., Hartman Bldg., Columbus, Ohio
Sullivan Machinery Co., 122 S. Michigan Ave., Chicago, Ill.
Swan Myers & Co., Indianapolis, Ind.
Swenson Evaporator Co., 945 Monadnuck Bldg., Chicago, Ill.
Swift & Co., Chicago, Ill.
Synthetic Products Co., North Towanda, N. Y.
Tartar Chemical Co., 135 William St., New York City
Taylor Chemical Co., Penn Yan, N. Y.
Taylor Co., Inc., N. & G., 300 Chestnut St., Philadelphia, Pa.
Taylor Instrument Cos., 95 Ames St., Rochester, N. Y.
Tennessee Chemical Co., Nashville, Tenn.
Tennessee Coal, Iron & R. R. Co., Birmingham, Ala.
Texas Co., 17 Battery Pl., New York City
Thiele Laboratories Co., Hartman Bldg., Columbus, Ohio
Thomas, Arthur H., W. Washington Sq., Philadelphia, Pa.
Tionesta Valley Chemical Co., Tionesta, Pa.
Titanium Alloy Mfg. Co., Niagara Falls, N. Y.
Toch Bros., 320 Fifth Ave., New York City
Toledo Furnace Co., Toledo, Ohio
Toledo Pharmacal Co., 224-226-228 Jackson Ave., Toledo, Ohio
Tolhurst Machine Works, Troy, N. Y.
Transatlantic Chemical Corporation, 80 Wall St., New York City
Tyler Co., W. S., Cleveland, Ohio
Uehling Instrument Co., 71 Broadway, New York City
Union Bag & Paper Co., Chicago, Ill.
Union Carbide Co., Niagara Falls, N. Y.
Union Chemical & Refining Co., Johnstown, Pa.

Union Oil Co. of California, Oleum, Cal.
Union Distilling Co., 3rd and Race Sts., Cincinnati, Ohio
Union Sugar Co., Home Office, 310 Sansome St., San Francisco, Cal.
United Dyes Corporation, Perth Amboy, N. J.
United Indigo & Chemical Co., Ltd., Boston, Mass.
United Furnace Co., Cleveland, Ohio
United Gas Improvement Co., Philadelphia, Pa.
United Lead Co., 111 Broadway, New York City
United States Asphalt Refining Co., E. Brooklyn, Baltimore, Md.
United States Gypsum Co., 205 W. Monroe St., Chicago, Ill.
United States Industrial Alcohol Co., Pine and Ferdinand Sts., New Orleans, La.
United States Metals Refining Co., 120 Broadway, New York City
United States Nickel Co., New Brunswick, N. J.
United States Reduction & Refining Co., Colorado Springs, Colo.
United States Smelting Co., 120 Broadway, New York City
United States Smelting, Refining & Mining Co., Boston, Mass.
United States Smokeless Powder Factory, Nashville, Tenn.; Charlestown, W. Va.
United States Stoneware Co., Akron, Ohio
United States Tire Co., Broadway and 58th St., New York City
United States Steel Co., New York City
United States Varnish Co., 41 Park Row, New York City
Upjohn Co., Kalamazoo, Mich.
Utah Potash Co., Trenton, N. J.
Vacuum Oil Co., 61 Broadway, New York City
Van Schaack & Sons, Peter, 114–118 W. Lake St., Chicago, Ill.
Van Schaack Bros. Chemical Works, Avondale, Chicago, Ill.
Van Tilburg Oil Co., 2424–28 University Ave., S. E., Minneapolis, Minn.
Verona Chemical Co., North Newark, N. J.
Victors, Ltd., Manchester, England
Victor Chemical Works, 1805 Fisher Bldg., Chicago, Ill. Factory: Chicago Heights, Ill.
Vilter Mfg. Co., 824 Clinton St., Milwaukee, Wis.
Virginia-Carolina Chemical Co., Richmond, Va.
Virginia Consolidated Chemical Corporation, 100 Broadway, New York City
Virginia Products Corporation, 3rd Ave. and 8th St., Canton, Baltimore, Md.
Virginia Red Oil Products Corporation, Baltimore, Md.
Vitro Mfg. Co., 720 Bessemer Bldg., Pittsburgh, Pa.
Vulcan Detinning Col., Sewaren, N. J.
Wabash Refining Co., Robinson, Ill.
Walker Chemical Works, 1010 Camp St., New Orleans, La.
Walsh & Co., James, Lawrenceburg, Ind.
Waltham Chemical Co., Waltham, Mass.
Warren Chemical Product Co., Warren, Pa.
Welch Mfg. Co., W. M., 1516 Orleans St., Chicago, Ill.
Welsbach & Co., Gloucester City, N. J.
Werk Co., The M., St. Barnard, Ohio
Werner & Pfleiderer Co., Inc., Saginaw, Mich.
West Coast Chemical Co., 6961 Woodlawn Ave., Seattle, Wash.
West Disinfecting Co., 411 Fifth Ave., New York City
Western Aniline Products Co., 1160 Old Colony Bldg., Chicago, Ill. Works: Hammond, Ind.
Western Chemical Mfg. Co., W. Byaud and Osage Sts., Denver, Colo.
Western Grain & Sugar Products Co., Agnew, Cal.
Western Stoneware Co., Monmouth, Ill.
Westinghouse Lamp Co., Bloomfield, N. J.
Wheeler Reynolds & Stauffer, 624 California St., San Francisco, Cal.
Whitall, Tatum Co., Philadelphia, Pa.
Whitehouse, Lewington, West Bromwich, England
Wiarda & Co., J. C., 259 Greene St., Brooklyn, N. Y.
Willcocks & Co., Ltd., H. S., Manchester, England
Will & Baumer Co., Syracuse, N. Y.
Williamsburg Chemical Co., Inc., 230 Morgan Ave., Brooklyn, N. Y.
Williams Co., J. B., Glastonbury, Conn.
Williams & Son, John T., Inc., 100 Broadway, New York City
Wilckes, Martin, Wilckes Co., 135 William St., New York City
Wilson & Co., Chicago, Ill.
Wing & Evans, 22 William St., New York City
Wolf & Co., Jacques, Passaic, N. J.
Winkler & Bro., Isaac, 804 First National Bank Bldg., Cincinnati, Ohio
Wood & Co., Granville, Oldham, England

Wood & Co., D. R., 400 Chestnut St., Philadelphia, Pa.
Wood, Inc., J. Early, 21 Platt St., New York City
Wood Products Co., Buffalo, N. Y.
Woodward Iron Co., Woodward, Ala.
Wright Chemical Corporation, 38 Park Row, New York City
Wrigley, Jr., Co., Wm., 5 N. Wabash Ave., Chicago. Ill.
Young & Co., J. S., Hanover, Pa.
Youngstown Chemical Works, Youngstown, Ohio
Youngstown Sheet & Tube Co., Youngstown, Ohio
York Chemical Co., 103 Maiden Lane, New York City
York Chemical Works, York, Pa.
York Metal & Alloy Co., York, Pa.
Zaremba Co., Niagara Life Ins. Bldg., Buffalo, N. Y.
Zenith Furnace Co., West Duluth, Minn.
Zinsser & Co., Hastings-on-Hudson, N. Y.
Zobel Co., Inc., Ernest, 38 Water St., New York City

II. INSTITUTIONAL LABORATORIES

Adelbert College, Cleveland, Ohio
Adelphi College, Brooklyn, N. Y.
Adrian College, Adrian, Mich.
Agnes Scott College, Decatur, Ga.
Agricultural & Mechanical College (colored) Norwalk, Conn,
Agricultural College of Utah, Logan, Utah
Agricultural and Mechanical College of Kentucky, Lexington, Ky.
Agricultural and Mechanical College of Texas, College Station, Texas
Alabama Polytechnic Institute, Auburn, Ala.
Albany College of Pharmacy, Union University, Albany, N. Y.
Albany Medical College, Albany, N. Y.
Albion College, Albion, Mich.
Allegheny College, Meadville, Pa.
American Medical Missionary College, Chicago, Ill.
Amherst College, Amherst, Mass.
Arizona School of Mines, Tucson, Ariz.
Arkansas College, Batesville, Ark.
Armour Institute of Technology, Chicago, Ill.
Army Medical School, Washington, D. C.
Ashland College, Ashland, Ohio
Atlanta College of Pharmacy, Atlanta, Ga.
Atlanta College of Physicians and Surgeons, Atlanta, Ga.
Atlanta Medical College, Atlanta, Ga.
Atlanta University, Atlanta, Ga.
Audubon Sugar School, Baton Rouge, La.
Austin College, Sherman, Texas
Baltimore City College, Baltimore, Md.
Baltimore College of Dental Surgery Baltimore, Md.
Baltimore Medical College, Baltimore, Md.
Baltimore Polytechnic Institute, Baltimore, Md.
Baltimore University School of Medicine, Baltimore, Md.
Barnard College, New York City
Bates College, Lewiston, Me.
Baylor University, Waco, Texas
Baylor University Medical College, Dallas, Texas
Belmont College, Nashville, Tenn.
Beloit College, Beloit, Wis.
Berea College, Berea, Ky.
Bessie Tift College, Forsyth, Ga.
Bethany College, Topeka, Kansas
Bethany College, Bethany, W. Va.
Bethel College, Russellville, Ky.
Bingham School, Asheville, N. C.
Birmingham College of Pharmacy, Birmingham, Ala.
Birmingham Medical College, Birmingham, Ala.
Bordentown Industrial and Manual Training School, Bordentown, N. J.
Boston Dental College, Boston, Mass.
Boston University, Boston, Mass.
Bowdoin College, Brunswick, Me.
Brigham Young College, Logan, Utah
Brigham Young University, Provo, Utah
Brenau College, Gainesville Ga.
Brooklyn College of Pharmacy, Brooklyn, N. Y.
Brooklyn Institute of Arts and Sciences, Brooklyn, N. Y.
Brown University, Providence, R. I.
Bryn Mawr College, Bryn Mawr, Pa.
Bucknell University, Lewisburg, Pa.
Buffalo College of Pharmacy, Buffalo, N. Y.
California College, Oakland, Cal.
California College of Pharmacy, San Francisco, Cal.
California Polytechnic School, San Luis Obispo, Cal.
California State Normal School, Chico, Cal.
Calvert Hall College, Baltimore, Md.

Carleton College, Northfield, Minn.
Carnegie Institute of Technology, Pittsburgh, Pa.
Case School of Applied Sciences, Cleveland, Ohio
Catawba College, Newton, N. C.
Catholic University of America, Washington, D. C.
Central College for Women, Lexington, Miss.
Central College for Women, Lexington, Mo.
Central Michigan Normal Institute, Mount Pleasant, Mich.
Central Normal College, Dade City, Fla.
Central Normal College, Danville, Ind.
Central Normal College, Waddy, Ky.
Central State Normal School, Mt. Pleasant, Mich.
Central University of Kentucky, Danville, Ky.
Chicago College of Dental Surgery, Chicago, Ill.
Chicago College of Medicine and Surgery, Chicago, Ill.
Chicago College of Pharmacy, Chicago, Ill.
Chicago School of Assaying, Chicago, Ill.
Chicago Veterinary College, Chicago, Ill.
Cincinnati College of Dental Surgery, Cincinnati, Ohio
Cincinnati College of Pharmacy, Cincinnati, Ohio
Cincinnati Veterinary College, Cincinnati, Ohio
Clark College, Worcester, Mass.
Clark University, Worcester, Mass.
Clarkson Memorial College of Technology, Potsdam, N. Y.
Clemson Agricultural College, Clemson College, P. O., S. C.
Cleveland School of Pharmacy, Cleveland, Ohio
Cole College, Cedar Rapids, Iowa
Cogswell Polytechnic College, San Francisco, Cal.
Colby College, Waterville, Me.
Colgate University, Hamilton, N. Y.
College for Women, Columbia, S. C.
College of Charleston, Charleston, S. C.
College of the City of New York, New York City
College of Medical Evangelists, Loma, Cal.
College of Medicine and Surgery, San Francisco, Cal.
College of Pharmacy of City of New York, New York City
College of Physicians and Surgeons, Little Rock, Ark.
College of Physicians and Surgeons, Los Angeles, Cal.
College of Physicians and Surgeons, San Francisco, Cal.
College of Physicians and Surgeons, Baltimore, Md.
College of Physicians and Surgeons, Boston, Mass.
College of Physicians and Surgeons, Columbia University, New York City
College of Physicians and Surgeons, Memphis, Tenn.
College of Physicians and Surgeons, Dallas, Texas
College of the Holy Cross, Worcester, Mass.
College of the Pacific, San Jose, Cal.
Collins Veterinary Medical College, Nashville, Tenn.
Colorado Agricultural College, Fort Collins, Colo.
Colorado College, Colorado Springs, Colo.
Colorado School of Mines, Golden, Colo.
Colorado State Teachers' College, Greeley, Colo.
Colorado Women's College, Montclair, Colo.
Columbia College, Columbia, S. C.
Columbia Military College, Columbia, Tenn.
Columbia University, New York City
Connecticut Agricultural College, Mansfield, Conn.
Connecticut College for Women, New London, Conn.
Converse College, Spartanburg, S. C.
Corcoran Scientific School, Washington, D. C.
Cornell University, Ithaca, N. Y.
Cornell University Medical College, New York City
Cox College and Conservatory, College Park, Ga.
Creighton College of Pharmacy, Omaha, Neb.
Creighton Medical College, Omaha, Neb.
Creighton University, Omaha, Neb.
Culver Miltary Academy, Culver, Ind.
Cumberland University, Lebanon, Tenn.
Dartmouth College, Hanover, N. H.
Davidson College, Davidson, N. C.
De Paul University, Chicago, Ill.
De Pauw University, Greencastle, Ind.
Delaware College, Newark, Del.
Denison University, Granville, Ohio
Detroit College, Detroit, Mich.
Detroit College of Medicine, Detroit, Mich.
Detroit University, Detroit, Mich.
Dickinson College, Carlisle, Pa.
Drake University, Des Moines, Iowa
Drury College, Springfield, Mo.

Duquesne University, Pittsburgh, Pa.
Earlham College, Richmond, Ind.
Eastern Illinois State Normal, Charleston, Ill.
Emory and Henry College, Emory, Va.
Emory University, Atlanta, Ga.
Erskine College, Duewest, S. C.
Fishburne Military School, Waynesboro, Va.
Florida State College for Women, Tallahassee, Fla.
Fordham University, Fordham, N. Y.
Fordham University, New York City.
Fordham University College of Medicine, New York City.
Fordham University College of Pharmacy, New York City.
Fort Worth School of Medicine, Fort Worth, Texas.
Franklin and Marshall College, Lancaster, Pa.
Franklin College, Franklin, Ind.
Franklin College, Franklin, Ohio.
Furman University, Greenville, S. C.
Gallaudet College, Washington, D. C.
George Washington University, Washington, D. C.
Georgetown University, Washington, D. C.
Georgia Medical College, University of Georgia, Augusta, Ga.
Georgia Military Academy, Atlanta, Ga.
Georgia Military Academy, Milledgeville, Ga.
Georgia School of Technology, Atlanta, Ga.
Georgia State College of Agriculture and Mechanic Arts, Athens, Ga.
Gilman School, Roland Park, Md.
Goucher College, Baltimore, Md.
Gordon Institute, Barnesville, Ga.
Grand Rapids Veterinary College, Grand Rapids, Mich.
Grinnell College, Grinnell, Iowa.
Groton School, Groton, Mass.
Hahnemann Medical College, San Francisco.
Hahnemann Medical College, Chicago, Ill.
Hahnemann Medical College, Philadelphia, Pa.
Hamilton College, Clinton, N. Y.
Hamline University, St. Paul, Minn.
Hampden-Sidney College, Hampden-Sidney, Va.
Harvard Medical School, Boston, Mass.
Harvard University, Cambridge, Mass.
Harvard University Dental School, Boston.
Haskell Institute, Lawrence, Kan.
Haverford College, Haverford, Pa.
Hebrew Technical Institute, New York, N. Y.
Hill School, Pottsville, Pa.
Hobart College, Geneva, N. Y.
Hollins College, Hollins, Va.
Hospital Col. of Medicine, Louisville, Ky.
Howard College, Birmingham, Ala.
Howard University, Washington, D. C.
Hunter College, New York, N. Y.
Illinois College, Jacksonville, Ill.
Illinois State Normal University, Normal, Ill.
Illinois Wesleyan Univ., Bloomington, Ill.
Illinois Woman's College, Jacksonville, Ill.
Indiana University, Bloomington, Ind.
Indiana University, School of Medicine, Indianapolis, Ind.
Indiana Veterinary College, Indianapolis, Ind.
Iowa State College, Ames, Ia.
Iowa State College of Agriculture and Mechanic Arts, Ames, Iowa
Jacob Tome Institute, Port Deposit, Md.
James Millikin University, Decatur, Ill.
John B. Stetson University, De Land, Fla.
Johns Hopkins University, Baltimore, Md.
Kansas City College of Pharmacy and Natural Sciences, Kansas City, Mo.
Kansas City Dental College, Kansas City, Mo.
Kansas City Veterinary College, Kansas City, Mo.
Kansas Medical College, Topeka, Kan.
Kansas State Agricultural College, Manhattan, Kan.
Kansas State School of Mines and Metallurgy, Weir, Kan.
Kearney Military Academy, Kearney, Neb.
Kemper Military School, Booneville, Mo.
Kentucky Military Institute, Lyndon, Ky.
Kentucky School of Medicine, Louisville.
Kenyon College, Gambier, O.
Knox College, Galesburg, Ill.
Lafayette College, Easton, Pa.
Lasche Institute of Fermentology, Milwaukee, Wis.
Lawrence Scientific School, Cambridge, Mass.
Lawrence University, Appleton, Wis.
Lawrenceville School, Lawrenceville, N. J.
Lehigh University, South Bethlehem, Pa.
Leland Stanford Junior University, Stanford University, P. O., Cal.

Leland Stanford Junior University, College of Medicine, San Francisco, Cal.
Lewis Institute, Chicago, Ill.
Louisiana State Normal, Natchitoches, La.
Louisiana State University, Baton Rouge, La.
Louisiana State University, Agricultural and Mechanical College, Baton Rouge, La.
Louisville College of Dentistry, Central University of Kentucky, Louisville, Ky.
Louisville College of Pharmacy, Louisville, Ky.
Louisville Medical College, Louisville, Ky.
Lowell Textile School, Lowell, Mass.
Loyola College, Baltimore, Md.
Loyola University, Chicago, Ill.
Manhattan College, New York, N. Y.
Manhattan Trade School, New York, N. Y.
Manual Training and Commercial High School, Oakland, Cal.
Manual Training and Industrial School, Bordentown, N. J.
Marietta College, Marietta, O.
Marist College, Atlanta, Ga.
Marquette University, Milwaukee, Wis.
Maryland Agricultural College, College Park, Md.
Maryland College of Pharmacy, Baltimore. Md.
Maryland Medical College, Baltimore, Md.
Maryland State Normal School, Baltimore, Md.
Massachusetts Agricultural College, Amherst, Mass.
Massachusetts College of Pharmacy, Boston, Mass.
Massachusetts Institute of Technology, Boston, Mass.
Massachusetts State Normal, Westfield, Mass.
Mechanic's Institute, San Francisco, Cal.
Medical College of Georgia, University of Georgia, Augusta, Ga.
Medical College of Virginia, Richmond, Va.
Medical College of Indiana, Indianapolis, Ind.
Medical College of South Carolina, Charleston, S. C.
Medical Department of the University of West Tennessee, Memphis, Tenn.
Medical School of Maine at Bowdoin College, Brunswick, Me.
Medical School of Maine, Bowdoin College, Portland, Me.
Medical College of Ohio, University of Cincinnati, Cincinnati, O.
Medical College of the State of South Carolina, Charleston, S. C.
Medical School of Virginia, Richmond, Va.
Medico-Chirurgical College, Philadelphia, Pa.
Meharry Medical College, Walden University, Nashville, Tenn.
Mercer University, Macon, Ga.
Mercer University School of Pharmacy, Macon, Ga.
Mercersburg Academy, Mercersburg, Pa.
Miami University, Oxford, O.
Michigan State Agricultural College, Agricultural College P. O., Mich.
Millikin University, Decatur, Ill.
Mills College, Mills College P. O., Cal.
Millsaps College, Jackson, Miss.
Milwaukee Medical College, Marquette University, Milwaukee, Wis.
Minneapolis College of Physicians and Surgeons, Hamline Univ., Minneapolis, Minn.
Minnesota Institute of Pharmacy, Minneapolis, Minn.
Mississippi Agricultural and Mechanical College, Agricultural College P. O., Miss.
Mississippi Medical College, Meridian, Miss.
Mississippi Textile School, A. and M. College, Agricultural College, Miss.
Missouri Botanical Garden School, St. Louis, Mo.
Missouri Military Academy, Mexico, Mo.
Missouri School of Mines, Rolla, Mo.
Missouri State Military School, Columbia, Mo.
Montana School of Mines, Butte, Mont.
Montana Agricultural College, Bozeman, Mont.
Montana State Normal College, Dillon, Mont.
Mooney School, Murfreesboro, Tenn.
National College of Pharmacy, Washington, D. C.
Nebraska College of Medicine, Lincoln, Neb.
Nebraska Normal College, Wayne, Neb.
New Hampshire College of Agriculture and Mechanic Arts, Durham, N. H.
New Jersey College of Pharmacy, Newark, N. J.
New Mexico College of Agriculture and Mechanic Arts, Agricultural College P. O., N. M.
New Mexico Military Institute, Roswell, N. M.
New Mexico School of Mines, Socorro, N. M.

New Orleans College of Dentistry, New Orleans, La.
New Orleans College of Pharmacy, New Orleans, La.
New Orleans Polyclinic, New Orleans, La.
New York-American Veterinary College, New York, N. Y.
New York College of Dental and Oral Surgery, New York, N. Y.
New York College of Dentistry, New York, N. Y.
New York Dental School, New York, N. Y.
New York Military Academy, Cornwall, N. Y.
New York Post-Graduate Medical School, New York, N. Y.
New York Polyclinic Medical School and Hospital, New York, N. Y.
New York School of Clinical Medicine, New York, N. Y.
New York State College of Agriculture, Cornell University, Ithaca, N. Y.
New York State College of Forestry, Syracuse University, Syracuse, N. Y.
New York State Veterinary College, Ithaca, N. Y.
New York University, New York, N. Y.
New York University Veterinary School, New York, N. Y.
Nevada State University, Reno, Nev.
Normal College of the City of New York. New York, N. Y.
Normal, Industrial and Mechanical College of South Carolina, Orangeburg, S. C.
Normal School of Arizona, Tempe, Ariz.
Normal School of New Mexico, Silver City, N. M.
Normal School of New Mexico, Santa Rosa, N. M.
North Carolina College of Agriculture and Mechanic Arts, West Raleigh, N. C.
North Dakota Agricultural College, Fargo, N. D.
North Dakota School of Science, Wahpeton, N. D.
North Pacific College, Portland, Ore.
Northeast Manual Training School, Philadelphia.
Northeastern Ohio Normal Col., Canfield, O.
Northwestern Military Academy, Lake Geneva, Wis.
Northwestern University, Evanston, Ill.
Northwestern University Dental School, Chicago, Ill.
Northwestern University Medical School, Chicago, Ill.
Northwestern University School of Pharmacy, Chicago, Ill.
Norwich University, Northfield, Vt.
Oakland College of Medicine and Surgery, Oakland, Cal.
Oberlin College, Oberlin, O.
Occidental College, Los Angeles, Cal.
Ohio College of Dental Surgery, University of Cincinnati, Cincinnati, O.
Ohio Institute of Pharmacy, Columbus, O.
Ohio Mechanics' Institute, Cincinnati, O.
Ohio-Miami Medical College, University of Cincinnati Medical Dept. Cincinnati, Ohio.
Ohio Military Institute, Cincinnati, O.
Ohio State University, Columbus, O.
Ohio Wesleyan University, Delaware, O.
Oklahoma Agricultural and Mechanical College, Stillwater, Okla.
Oklahoma School of Mines and Metallurgy, Wilburton, Okla.
Omaha College of Pharmacy, Omaha, Neb.
Oregon Agricultural College, Corvallis, Ore.
Pacific College, Newberg, Ore.
Pennsylvania College of Dental Surgery, Philadelphia, Pa.
Pennsylvania Military College, Chester, Pa.
Pennsylvania State College, State College, Pa.
Philadelphia College of Pharmacy, Philadelphia, Pa.
Philadelphia Dental Col., Philadelphia, Pa.
Philadelphia Medical School of Temple College, Philadelphia, Pa.
Philadelphia Polyclinic, Philadelphia, Pa.
Philadelphia Textile School, Philadelphia, Pa.
Philip's Exeter Academy, Exeter, N. H.
Phillips Academy, Andover, Mass.
Pittsburgh College of Pharmacy, Pittsburgh, Pa.
Pittsburgh Dental College, Western University of Pennsylvania, Pittsburgh, Pa.
Princeton University, Princeton, N. J.
Pomona College, Claremont, Cal.
Pratt Institute, Brooklyn, N. Y.
Queen City College of Pharmacy, Cincinnati, Ohio
Racine College, Racine, Wis.
Radcliffe College, Cambridge, Mass.
Randolph-Macon College, Ashland, Va.
Randolph-Macon Woman's Col., Lynchburg, Va.
Reed College, Portland, Ore.

Rensselaer Polytechnic Institute, Troy, N. Y.
Rhode Island State College of Agriculture and Mechanic Arts, Kingston, R. I.
Rhode Island College of Pharmacy and Allied Sciences, Providence, R. I.
Rhode Island College, Kingston, R. I.
Rhode Island Normal School, Providence, R. I.
Rice Institute, Houston, Tex.
Richmond College, Richmond, Va.
Ripon College, Ripon, Wis.
Riverside Military Academy, Gainesville, Ga.
Roanoke College, Salem, Va.
Rose Polytechnic Institute, Terra Haute, Ind.
Rush Medical College, Chicago, Ill.
Rutgers College, New Brunswick, N. J.
St. John's College, Annapolis, Md.
St. Louis College of Dentistry, St. Louis, Mo.
St. Louis College of Pharmacy, St. Louis, Mo.
St. Louis College of Physicians and Surgeons, St. Louis, Mo.
St. Louis Dental College, St. Louis, Mo.
St. Louis Medical College, Medical Department Washington University, St. Louis, Mo.
St. Louis University, St. Louis, Mo.
School of Agriculture, Tucson, Ariz.
School of Agriculture, University of Minnesota, St. Anthony Park, Minn.
School of Agriculture and Experiment Farm, Crookston, Minn.
School of Dentistry, University of Ill., Chicago.
School of Engineering, Agricultural and Mechanical College, College Station, Texas.
School of Engineering, A. & M. College, Agricultural College P. O., Miss.
Sheffield Scientific Sch., New Haven, Conn.
Sibley College of Mechanical Engineering and Mechanic Arts, Ithaca, N. Y.
Simmons College, Boston, Mass.
Smith College, Northampton, Mass.
Smith College for Women, Geneva, N. Y.
South Carolina Military Academy, Charleston, S. C.
South Dakota State College, Department of Pharmacy, Brookings, S. D.
South Dakota Sch. of Mines, Rapid City, S. D.
Southeastern Dental College, Atlanta, Ga.
Southern Col. of Pharmacy, Atlanta, Ga.
Southern Dental College, Atlanta, Ga.
Southern Methodist University, Medical Department, Dallas, Texas.
Southern Methodist University, Dallas, Texas.
Southern University, Greensboro, Ala.
Southwestern University, Georgetown, Tex.
Southwestern University Medical College, Dallas, Tex.
State Agricultural College, Burlington, Vt.
State Agricultural College, Breen, Colo.
State Agricultural and Mechanical College, Baton Rouge, La.
State Agricultural and Mechanical College of Texas, College Station, Tex.
State Agricultural School, Jonesboro, Ark.
State Agricultural School, Magnolia, Ark.
State Agricultural School, Monticello, Ark.
State Agricultural School, Russellville, Ark.
State College of Kentucky, Lexington, Ky.
State College of Washington, Pullman, Wash.
State Normal and Industrial College, Greensboro, N. C.
State Normal-Industrial School, Ellendale, N. D.
State Normal and Industrial School, Harrisonburg, Va.
State Normal and Industrial School for Women, Fredericksburg, Va.
State Normal College, Athens, Ohio.
State Normal and Train. Sch., Cortland, N. Y.
State Normal College, Ypsilanti, Mich.
State Normal School, Florence, Ala.
State Normal School, Jacksonville, Ala.
State Normal School, Livingston, Ala.
State Normal School, Moundville, Ala.
State Normal School, Troy, Ala.
State Normal School, Chico, Cal.
State Normal School, Los Angeles, Cal.
State Normal School, San Diego, Cal.
State Normal School, San Francisco, Cal.
State Normal School, San Jose, Cal.
State Normal School, Gunnison, Colo.
State Normal School, Danbury, Conn.
State Normal School, Athens, Ga.
State Normal School, Albion, Idaho.
State Normal School, Lewiston, Idaho.
State Normal School, Emporia, Kan.
State Normal School, Bridgewater, Mass.
State Normal School, Fitchburg, Mass.
State Normal School, Farmingham, Mass.
State Normal School, Hyannis, Mass.
State Normal School, Lowell, Mass.
State Normal School, North Adams, Mass.

State Normal School, Salem, Mass.
State Normal School, Westfield, Mass.
State Normal School, Worcester, Mass.
State Normal School, Duluth, Minn.
State Normal School, Mankato, Minn.
State Normal School, Moorhead, Minn.
State Normal School, St. Cloud, Minn.
State Normal School, Winona, Minn.
State Normal School, Cape Girardeau, Mo.
State Normal School, Kirksville, Mo.
State Normal School, Maryville, Mo.
State Normal School, Springfield, Mo.
State Normal School, Warrensburg, Mo.
State Normal School, Reno, Nev.
State Normal School, Montclair, N. J.
State Normal School, Cullowhee, N. C.
State Normal School, Mayville, N. D.
State Normal School, Minot, N. D.
State Normal School, Valley City, N. D.
State Normal School, Buffalo, N. Y.
State Normal School, New Platz, N. Y.
State Normal School, Onconta, N. Y.
State Normal School, Oneonta, N. Y.
State Normal School, Bowling Green, Ohio.
State Normal School, Kent, Ohio.
State Normal School, Oxford, Ohio.
State Normal School, Monmouth, Ore.
State Normal School, Bloomsberg, Pa.
State Normal School, Indiana, Pa.
State Normal School, Mansfield, Pa.
State Normal School, West Chester, Pa.
State Normal School, Spearfish, S. D.
State Normal School, Springfield, S. D.
State Normal School, Salt Lake City, Utah.
State Normal School, Castleton, Vt.
State Normal School, Johnson, Vt.
State Normal School, Bellingham, Wash.
State Normal School, Cheney, Wash.
State Normal School, Athens, W. Va.
State Normal School, Glenville, W. Va.
State Normal School, Milwaukee, Wis.
State Normal School, Oshkosh, Wis.
State Normal School, Platteville, Wis.
State Normal School, River Falls, Wis.
State Normal School, Stevens Point, Wis.
State Normal School, Superior, Wis.
State Normal School, Whitewater, Wis.
State Normal School of Pennsylvania, Indiana, Pa.
State Normal School of Manual Arts, Santa Barbara, Cal.
State Normal and Training School, Brockport, N. Y.
State Normal and Training School, Cornwall, N. Y.
State Normal and Training School, Fredonia, N. Y.
State Normal and Training School, Oswego, N. Y.
State Normal and Training School, Potsdam, N. Y.
State Normal Training School, Danbury, Conn.
State Normal Training School, New Britain, Conn.
State Normal Training School, New Haven, Conn.
State Normal Training School, Fall River, Mass.
State School of Mines, Wilburton, Okla.
State Normal Training School, Willimantic, Conn.
State University, Louisville, Ky.
State University of Iowa, Iowa City, Ia.
State University of Kentucky, Lexington, Ky.
State University of North Dakota, Grand Forks, N. D.
Stevens Institute of Technology, Hoboken, N. J.
Stout Institute, Menominee, Wis.
Swarthmore College, Swarthmore, Pa.
Sweet Briar College, Sweet Briar, Va.
Syracuse University, Syracuse, N. Y.
Syracuse University, Lyman Cornelius Smith College of Applied Science, Syracuse, N. Y.
Syracuse University, College of Fine Arts, Syracuse, N. Y.
Syracuse University, College of Medicine, Syracuse, N. Y.
Teachers' College, St. Louis, Mo.
Teachers' College, Columbia University, New York, N. Y.
Teachers' Training School, Albany, N. Y.
Teachers' Training School, Rochester, N. Y.
Teachers' Training School, Schenectady, N. Y.
Teachers' Training School, St. Paul, Minn.
Teachers' Training School, Hoboken, N. J.
Teachers' Training School, Springfield, Ill.
Teachers' Training School, Jersey City, N. J.
Teachers' Training School, Harrisburg, Pa.
Technical Normal School, Chicago, Ill.
Technical School of Cincinnati, Cincinnati, O.
Technological High School, Atlanta, Ga.
Tennessee Medical College, Knoxville, Tenn.
Tennessee Military Inst., Sweetwater, Tenn.
Texas Christian University, Ft. Worth, Tex.
Texas School of Mines, El Paso, Tex.

Throop College of Technology, Pasadena, Cal.
Toledo University, Toledo, O.
Tome School, Port Deposit, Md.
Trinity College, Hartford, Conn.
Trinity College, Durham, N. C.
Tulane University, New Orleans, La.
Tufts College, Tufts College P. O., Mass.
Union College, Schenectady, N. Y.
Union University, Albany, N. Y.
Union University, Jackson, Tenn.
United States College of Veterinary Surgery, Washington, D. C.
United States Indian Industrial School, Carlisle, Pa.
United States Military Academy, West Point, N. Y.
United States Naval Academy, Annapolis, Md.
University and Bellevue Hospital Medical College, New York, N. Y.
University of Akron, Akron, O.
University of Alabama, University, Ala.
University of Alabama Medical Department, Mobile, Ala.
University of Alabama School of Pharmacy, Mobile, Ala.
University of Arizona, Tucson, Ariz.
University of Arkansas, Fayetteville, Ark.
University of Arkansas Medical Department, Little Rock, Ark.
University of Arts and Trades, Toledo, O.
University of Buffalo, Buffalo, N. Y.
University of Buffalo, Dental Department, Buffalo, N. Y.
University of Buffalo, College of Pharmacy, Buffalo, N. Y.
University of Buffalo, Medical Department, Buffalo, N. Y.
University of California, Berkeley, Cal.
University of California College of Dentistry, San Francisco, Cal.
University of California Medical Department, San Francisco, Cal.
University of Chattanooga, Chattanooga, Tenn.
University of Chicago, Chicago, Ill.
University of Cincinnati, Cincinnati, O.
University College, Oak Hill, Ohio.
University of Colorado, Boulder, Colo.
University of Dallas, Dallas, Tex.
University of Denver, Denver, Colo.
University of Detroit, Detroit, Mich.
University of Florida, Gainesville, Fla.
University of Georgia, Athens, Ga.
University of Idaho, Moscow, Idaho.
University of Illinois, Urbana, Ill.
University of Illinois School of Medicine, Chicago, Ill.
University of Kansas, Lawrence, Kan.
University of Kansas School of Medicine, Rosedale, Kan.
University of Louisville, Louisville, Ky.
University of Maine, Orono, Me.
University of Maryland, Baltimore, Md.
University of Michigan, Ann Arbor, Mich.
University of Minnesota, Minneapolis, Minn.
University of Mississippi, University, P. O., Miss.
University of Missouri, Columbia, Mo.
University of Montana, Missoula, Mont.
University of Nashville, Nashville, Tenn.
University of Nebraska, Lincoln, Neb.
University of Nebraska College of Medicine, Omaha, Neb.
University of Nevada, Reno, Nev.
University of New Mexico, Albuquerque, N. M.
University of North Carolina, Chapel Hill, N. C.
University of North Carolina Medical School, Raleigh, N. C.
University of North Dakota, University P. O., N. D.
University of Notre Dame, Notre Dame, Ind.
University of Oklahoma, Norman, Okla.
University of Oklahoma, School of Medicine, Oklahoma, Okla.
University of Omaha, Omaha, Neb.
University of Oregon, Eugene, Ore.
University of Oregon Medical Department, Portland, Ore.
University of the Pacific, San Jose, Cal.
University of Pennsylvania, Philadelphia, Pa.
University of Pittsburgh, Pittsburgh, Pa.
University of Rochester, Rochester, N. Y.
University of Santa Clara, Santa Clara, Cal.
University of South Carolina, Columbia, S. C.
University of South Dakota, Vermillion, S. D.
University of Southern California, Los Angeles, Cal.
University of St. Ignatius, San Francisco, Cal.
University of Tennessee, Knoxville, Tenn.
University of Tennessee, College of Dentistry, Memphis, Tenn.
University of Tennessee Medical Department, Nashville, Tenn.
University of Tennessee, School of Pharmacy, Memphis, Tenn.
University of Texas, Austin, Tex.
University of Texas School of Pharmacy, Galveston, Tex.
University of Texas Medical Department, Galveston, Tex.

University of the South, Sewanee, Tenn.
University of Utah, Salt Lake City, Utah.
University of Vermont and State Agricultural College, Burlington, Vt.
University of Virginia, Charlottesville, Va.
University of Washington, Seattle, Wash.
University of West Tennessee, Memphis, Tenn.
University of Wisconsin, Madison, Wis.
University of Wooster, Wooster, O.
University of Wyoming, Laramie, Wyo.
Ursinus College, Collegeville, Pa.
Valparaiso University, Valparaiso, Ind.
Vanderbilt University, Nashville, Tenn.
Vassar College, Poughkeepsie, N. Y.
Villanova College, Villanova, Pa.
Vincennes University, Vincennes, Ind.
Virginia College, Roanoke, Va.
Virginia Military Institute, Lexington, Va.
Virginia Normal and Industrial Institute, Petersburg, Va.
Virginia Polytechnic Inst., Blacksburg, Va.
Virginia School of Dentistry, Medical College of Virginia, Richmond, Va.
Virginia School of Pharmacy, Medical College of Virginia, Richmond, Va.
Wabash College, Crawfordsville, Ind.
Wake Forest College, Wake Forest, N. C.
Washburn College, Topeka, Kan.
Washington and Jefferson College, Washington, Pa.
Washington and Lee University, Lexington, Va.
Washington College, Chestertown, Md.
Washington Dental College, Georgetown University, Washington, D. C.
Washington State College, Pullman, Wash.
Washington State Normal, Ellensburg, Wash.
Washington University, St. Louis, Mo.
Webb School, Belbuckle, Tenn.
Wellesley College, Wellesley, Mass.
Wenonah Military Academy, Wenonah, N. J.
Wentworth Military Acad., Lexington, Mo.
Wesleyan College, Macon, Ga.
Wesleyan University, Middletown, Conn.
West Virginia University, Morgantown, W. Va.
Western Reserve University, Cleveland, Ohio.
Wheaton College, Wheaton, Ill.
Whitman College, Walla Walla, Wash.
Whittier College, Salem, Ia.
Whittier College, Whittier, Cal.
Williamette University, Salem, Ore.
William Jewell College, Liberty, Mo.
William & Mary College, Williamsburg, Va.
Williams College, Williamstown, Mass.
Wittenburg College, Springfield, O.
Wofford College, Spartanburg, S. C.
Woman's College, Richmond, Va.
Woman's Medical College of Pennsylvania, Philadelphia, Pa.
Worcester Polytechnic Inst., Worcester, Mass.
Yale University, New Haven, Conn.

III. FEDERAL AND STATE LABORATORIES*

Bureau of Chemistry, Department of Agriculture, Washington, D. C.
Bureau of Animal Industry, Department of Agriculture, Washington, D. C.
Commissioner of Internal Revenue, Treasury Department, Washington, D. C.
United States Food and Drug Laboratory, Cincinnati, Ohio.
United States Food and Drug Laboratory, Minneapolis, Minn.
United States Food and Drug Laboratory, St. Louis, Mo.
United States Food and Drug Laboratory, Buffalo, N. Y.
United States Food and Drug Laboratory, Porto Rico.
United States Food and Drug Laboratory, Savannah, Ga.
United States Food and Drug Laboratory, Boston, Mass.
United States Food and Drug Laboratory, Chicago, Ill.
United States Food and Drug Laboratory, Denver, Colo.
United States Food and Drug Laboratory, New Orleans, La.
United States Food and Drug Laboratory, New York City.
United States Food and Drug Laboratory, Philadelphia, Pa.

* Included in this list are Federal and State officials of foods, drugs, dairying, and feeding stuffs.

United States Food and Drug Laboratory, Washington, D. C.
United States Food and Drug Laboratory, Honolulu, T. H.
United States Food and Drug Laboratory, Seattle, Wash.

Alabama

Commissioner, Department of Agriculture and Industries, Montgomery
B. B. Ross, Chemist, Alabama Polytechnic Institute, Auburn

Arizona

Jane H. Rider, Director, State Laboratory, University of Arizona, Tucson

Arkansas

Commissioner, Bureau of Mines, Manufactures and Agriculture, Little Rock
Dr. William F. Manglesdorf, Chemist State Health Officer, Little Rock
A. R. Stover, Medical Department, University of Arkansas, Little Rock

California

Director, Bureau of Food and Drugs, University of California, Berkeley
State Dairy Bureau, 25 California St., San Francisco

Colorado

Food and Drug Commissioner, State Board of Health, Food and Drug Department, Capitol Building, Denver
State Dairy Commissioner, Fort Collins
Dr. J. B. Ekeley, State Chemist, University of Colorado, Boulder

Connecticut

Dairy and Food Commissioner, Capitol Building, Hartford
Director, Agricultural Experiment Station, New Haven
J. P. Street, Chemist, Agricultural Experiment Station, Drawer No 1, New Haven

Delaware

President, State Board of Health, Wilmington
Herbert J. Watson, Chemist and Bacteriologist, State Board of Health, Newark
State Board of Pharmacy, Wilmington, Del.

District of Columbia

Dr. William C. Woodward, Health Officer, Health Department, Washington
Dr. J. J. Kinyoun, Bacteriologist, Health Department, Washington
Morris A. Pozen, Chemist, Health Department, Washington

Florida

Commissioner, Department of Agriculture, Tallahassee
R. E. Rose, Chemist, Department of Agriculture, Tallahassee

Georgia

Commissioner, State Board of Agriculture, Atlanta.
W. C. Dumas, Chemist, Department of Agriculture, Atlanta

Hawaii

A. W. Hansen, Territorial Board of Health, Honolulu

Idaho

Dairy, Food, and Sanitary Commissioner, Boise
Edward Rhodenbaugh. State Chemist, State Board of Health, Boise

Illinois

Commissioner, State Food Commission, 1627 Manhattan Building, Chicago
David Klein, State Analyst, State Food Commission, 1627 Manhattan Building, Chicago

Indiana

State Food and Drug Commissioner, State House, Indianapolis (foods and drugs)
H. E. Bishop, Food Chemist, State House, Indianapolis
Wm. D. McAbee, Drug Chemist, State House, Indianapolis
John C. Diggs, Water Chemist, State House, Indianapolis
W. J. Jones, Jr., Purdue Agricultural Experiment. Station, Lafayette (feeding stuffs)

Iowa

Commissioner, Dairy and Food Commission, Des Moines
E. L. Redfern, State Chemist, Des Moines

Kansas

Secretary, State Board of Health, Topeka
State Dairy Commission, Manhattan
Director, Kansas Agricultural College Laboratory, Manhattan
E. H. S. Bailey, Food Laboratory, University of Kansas, Lawrence
L. E. Sayre, Drug Laboratory, University of Kansas, Lawrence

Kentucky

Food and Drug Department, Agricultural Experiment Station, Lexington (foods and drugs)
Director Agricultural Experiment Station, Lexington (feeding stuffs)
J. O. LaBach, Chief Chemist, Agricultural Experiment Station, Lexington
Linwood A. Brown, Drug Chemist, Agricultural Experiment Station, Lexington
W. R. Pinnell, Bacteriologist

Louisiana

President, State Board of Health, New Orleans
Cassius L. Clay State Analyst, State Board of Health, New Orleans
Commissioner of Agriculture and Immigration, Baton Rouge (feeding stuffs)

Maine

Commissioner of Agriculture, Augusta
Chief Food and Drug Inspector, Augusta (foods, drugs, and feeding stuffs)
Department of Agriculture, Orono (feeding stuffs)
James M. Bartlett, Chemist, Agricultural Experiment Station, Orono

Maryland

Food and Drug Commissioner, Department of Health, 16 W. Saratoga St., Baltimore (foods and drugs)
Dr. Wm. R. Stokes, State Bacteriologist, Baltimore
Dr. Wyatt W. Randall, Chief, Bureau of Chemistry, Baltimore
H. B. McDonnell, Chemist, Agricultural Experiment Station, College Park (feeding stuffs)

Massachusetts

Commissioner of Health, State Department of Health, 144 State House, Boston
Herman C. Lythgoe, Analyst, State Department of Health, Boston (foods and drugs)
Secretary, State Board of Agriculture, 136 State House, Boston (dairying and milk products)
P. H. Smith, Chemist, Agricultural Experiment Station, Amherst (feeding stuffs)

Michigan

Dairy and Food Commissioner, Lansing (foods, feeding stuffs, dairying, and drugs)
A. J. Patten, State Chemist, Division of Chemistry, Agricultural Experiment Station, E. Lansing, Mich.
Fern L. Shannon, State Analyst, Dairy and Food Department, Lansing
A. R. Todd, Analytical Chemist, Dairy and Food Department, Lansing

Minnesota

Dairy and Feed Commissioner, New Capitol, St. Paul (dairying, foods, and feeding stuffs)
Julius Hortvet, State Dairy and Food Commission, Old Capitol, St. Paul

Mississippi

Commissioner of Agriculture and Commerce, Jackson (feeding stuffs)
W. F. Hand, State Chemist, Agricultural and Mechanical College, Agricultural College (foods and feeding stuffs)

Missouri

Food and Drug Commissioner, La Salle Building, St. Louis (foods and drugs)
Bureau of Dairying, Columbia
H. Edmund Wiedeman, Chemist, State Food and Drug Department, Holland Building, St. Louis

Montana

Director of Food and Drugs, Department of Public Health, Helena (foods and drugs)
State Dairy Commissioner, Helena
Wm. M. Cobleigh, Chemist, Montana Agricultural College, Bozeman

Nebraska

Deputy Commissioner, Food, Drug, Dairy and Oil Commission, Lincoln
W. S. Frisbie, Chemist, State Food, Drug, Dairy, and Oil Commission, Lincoln

Nevada

Commissioner, Food and Drug Control Department, Reno (foods, feeding stuffs, and drugs)
M. B. Kennedy, Chemist

New Hampshire

Secretary, State Board of Health, State House, Concord.
Chas. D. Howard, Chemist, State Board of Health, Concord (foods and drugs)
B. E. Curry, Chemist, Durham (feeding stuffs)

New Jersey

Secretary, State Board of Health
Dr. R. B. Fitz-Randolph, Chief, Division of Foods, Drugs, Sewerage, and Water, State Board of Health, Trenton (foods and drugs)
W. G. Tice, Chief Chemist, State Board of Health, Department of Foods and Drugs, Trenton
Director of Agricultural Experiment Station, New Brunswick (feeding stuffs)
Chief, Bureau of Creamery and Dairy Inspection, Trenton (dairy and creamery products)
Chas. S. Cathcart, State Chemist, Agricultural Experiment Station, New Brunswick

New York

Commissioner of Agriculture, Albany.
Department of Agriculture, Albany (foods and feeding stuff)
Secretary, Board of Pharmacy, Albany (drugs)
E. J. Wheeler, State Department of Agriculture, 79 Chapel St., Albany

North Carolina

Commissioner, Department of Agriculture, Raleigh
W. M. Allen, State Food and Oil Chemist, Raleigh, (foods and drugs)
B. W. Kilgore, State Chemist, Department of Agriculture, Raleigh (feeding stuffs)

North Dakota

E. F. Ladd, Commissioner and State Chemist, Agricultural Experiment Station, Agricultural College (foods, feeding stuffs, and drugs)
Robert Hulburt, Bacteriologist, Agricultural College
Roe E. Remington, Food Chemist, Agricultural College
W. F. Sudro, Drug Chemist, Agricultural College
Matty Jongeward, Drug Chemist
C. P. Guthrie, Drug Chemist, Agricultural College
Louis Jackson. Paint Chemist

Ohio

Chief of Dairy and Food Division, Agricultural Commission, Columbus (foods, dairying, and drugs)
S. K. Johnson, Columbus (feeding stuffs)

Oklahoma

Commissioner, Department of Public Health, Guthrie (foods and drugs)
State Board of Agriculture, Oklahoma City (feeding stuffs)
R. E. Andrews, State Chemist, Oklahoma City
G. K. Dixon, Bacteriologist, Oklahoma City
Dairy Commissioner, State Board of Agriculture, Oklahoma City

Oregon

Dairy and Food Commissioner, 510 Worcester Building, Portland
A. S. Wells, State Chemist, State Dairy and Food Commission, 510 Worcester Building, Portland

Pennsylvania

Dairy and Food Commissioner, Department of Agriculture, Harrisburg (foods and dairying)
J. W. Kellogg, Chief Chemist, Bureau of Chemistry, Department of Agriculture, Harrisburg (feeding stuffs)
L. L. Walton, Drug Control, Williamsport
Wm. Frear, Chemist, State Dairy and Food Commission, State College
Jas. A. Evans, Chemist, State Dairy and Food Commission, Erie
F. T. Aschman, Chemist, State Dairy and Food Commission, Pittsburgh
C. B. Cochran, Chemist, State Dairy and Food Commission, West Chester
Chas. H. Lawall, Chemist, State Dairy and Food Commission, Philadelphia
C. F. Schoen, Chemist, State Dairy and Food Commission, Scranton

Philippine Islands

Bureau of Health, Manila

Porto Rico

Director of Sanitation, P. O. Box 1108, San Juan
Rafael del Valle Sarraga, Service of Sanitation, P. O. Box 935, San Juan

Rhode Island

Chairman, Food and Drug Commission, State House, Providence (foods and drugs)
Director, Agricultural Experiment Station, Kingston (feeding stuffs)
Franklin N. Strickland, Executive Secretary-Chemist, Room 21, State House, Providence

South Carolina

Commissioner of Agriculture, Commerce and Industries, Columbia (feeding stuffs, foods, and drugs)
A. C. Summers, Chief Chemist, Department of Agriculture, Commerce and Industries, Columbia

South Dakota

Guy G. Frary, Food and Drug Commissioner, Vermilion (foods, drugs, and feeding stuffs)

Dairy Expert, Dairy Expert Department, Brookings (dairies and dairy products)

Tennessee

Commissioner, Food and Drug Commissioner, Nashville (foods and drugs)

Commissioner of Agriculture, Nashville (feeding stuffs)

Dr. M. E. Hinds, Chief Chemist, Nashville

Texas

Commissioner, Food and Drug Department, Austin (foods and drugs)

E. H. Golaz, Chemist and Collaborating Chemist, U. S. Dept. of Agriculture, Food and Drug Department, Austin

D. F. Snyder, Chemist, Food and Drug Department, Austin

Director Agricultural Experiment Station, College Station (feeding stuffs)

G. S. Fraps, State Chemist, College Station

Utah

Commissioner, State Dairy and Food Department, Salt Lake City

Herman Harms, State Chemist, State Dairy and Food Bureau, 312 Boyd Park Building, Salt Lake City

Vermont

Secretary, State Board of Health, 184 Church St., Burlington (foods and drugs)

Director, Agricultural Experiment Station, Burlington (feeding stuffs).

Dr. B. H. Stone, Director of Laboratory, Burlington

Virginia

Dairy and Food Commissioner, Department of Agriculture and Immigration, Richmond (dairying, foods and feeding stuffs)

State Board of Pharmacy, Richmond (drugs)

Dr. C. M. Bradbury, State Department of Agriculture and Immigration, Division of Chemistry, Richmond

Dr. J. B. Weems, State Chemist, State Dairy and Food Commission, Richmond, Va.

Washington

Commissioner of Agriculture, Division of Dairy and Live Stock, Olympia.

Division of Foods, Feeds, Fertilizers, Drugs, State Department of Agriculture, Olympia (foods, feeding stuffs, and drugs)

Geo. A. Olson, State Chemist, Pullman

Dr. C. W. Johnson, State Chemist, Seattle

West Virginia

Commissioner, Department of Agriculture, Charleston (foods and drugs)

Wisconsin

Dairy and Food Commissioner, Madison (dairying, foods and drugs)

Director, Agricultural Experiment Station, Madison (feeding stuffs)

Richard Fischer, State Dairy and Food Commission, Madison

Wallace H. Strowd, Chemist, Feed and Fertilizer Control, Madison

H. Kleuter, Chemist, Food and Drug Department, Madison

Wyoming

Dairy, Food, and Oil Commissioner, Cheyenne (foods, feeding stuffs, and drugs)

Ross B. Moudy, State Chemist, University of Wyoming, Laramie

IV. MUNICIPAL LABORATORIES*

Alabama
Birmingham
Mobile
Montgomery

Arizona
Phoenix
Tucson

Arkansas
Fort Smith
Little Rock

California
Alameda
Berkeley
Los Angeles
Oakland
Sacramento
San Francisco
San Diego
San Jose
Stockton

Colorado
Boulder
Colorado Springs
Denver

Connecticut
Bridgeport
Hartford
New Britain
New Haven
New London
Norwalk
Norwich

Delaware
Newark
Wilmington

District of Columbia
Washington

Florida
Jacksonville
Key West
Tampa

Georgia
Athens
Atlanta
Augusta
Macon
Savannah

Hawaii
Honolulu

Idaho
Boise

Illinois
Alton
Cairo
Chicago
Danville
Elgin
Evanston
Quincy
Rockford
Rock Island
Springfield

Indiana
Evansville
Fort Wayne
Gary
Indianapolis
Marion
New Albany
Richmond
South Bend
Terre Haute

Iowa
Cedar Rapids
Clinton
Council Bluffs
Davenport
Des Moines

Kansas
Hutchinson
Kansas City
Leavenworth
Topeka
Wichita

Kentucky
Covington
Lexington
Louisville

Louisiana
Alexandria
Baton Rouge
Monroe
New Orleans

Maine
Augusta
Bangor
Brunswick

Maryland
Baltimore
Cumberland
Frederick

*Address: City Chemist, Department of Health (City), (State)

Massachusetts

Boston
Brookline
Cambridge
Clinton
Everett
Fall River
Gloucester
Haverhill
Lawrence
Lowell
Lynn
Medford
New Bedford
Springfield
Taunton
Waltham
Westfield
Worcester

Michigan

Ann Arbor
Battle Creek
Detroit
Grand Rapids
Kalamazoo

Minnesota

Duluth
Minneapolis
St. Paul

Mississippi

Meridian
Vicksburg

Missouri

Joplin
Kansas City
St. Joseph
St. Louis

Montana

Anaconda
Helena
Missoula

Nebraska

Lincoln
Omaha

Nevada

Reno

New Hampshire

Berlin
Dover
Manchester

New Jersey

Atlantic City
Bayonne
Camden
Hoboken
Jersey City
Newark
New Brunswick
Orange
Passaic
Paterson
Trenton

New Mexico

Alberquerque

New York

Albany
Brooklyn
Buffalo
Ithaca
New York
Niagara Falls
Rochester
Schenectady
Syracuse
Troy
Utica

North Carolina

Asheville
Charlotte
Durham
Raleigh
Wilmington

North Dakota

Fargo
Grand Forks

Ohio

Akron
Cincinnati
Cleveland
Columbus
Dayton
Springfield
Toledo
Youngstown
Zanesville

Oklahoma

Oklahoma City
Tulsa

Oregon

Portland

Pennsylvania

Easton
Erie
Harrisburg
Philadelphia
Pittsburgh
Scranton

Philippine Islands
Manila

Rhode Island
Bristol
Newport
Pawtucket
Providence

South Carolina
Charleston
Columbia
Greenville
Spartanburg

South Dakota
Aberdeen
Sioux Falls

Tennessee
Chattanooga
Memphis
Knoxville
Nashville

Texas
Austin
Dallas
Galveston
Houston
San Antonio
Waco

Utah
Ogden
Salt Lake City

Vermont
Burlington

Virginia
Alexandria
Lynchburg
Norfolk
Portsmouth
Richmond
Roanoke
Staunton

Washington
Seattle
Spokane
Tacoma

West Virginia
Charleston
Parkersburg
Wheeling

Wisconsin
Madison
Milwaukee
Oshkosh
Racine
Superior

VII. SOCIETIES AND ASSOCIATIONS

Agriculture

Agricultural Horticultural Society of Burma, Rangoon, India: Capt. W. H. Allen, Secretary; founded 1864; members 325; annual dues 20 Rs.

Highland and Agricultural Society of Scotland, 3 George IV. Bridge, Edinburgh, Scotland; J. Stirton, Secretary; founded 1787; members 7000; annual dues £1 3s. 6d.; 10s.

Kiel Ver. z. Pflege d. Nat. u. Landesk., Hamburger Chaussee 110; H. Barford, Secretary; founded 1890; members, 3500; annual dues, 3M.

Moscow Agricultural Society, Moscow, Russia.

Royal Agricultural and Commerce Society, Georgetown, British Guiana; J. Cunningham, Secretary; founded 1844; members 500; annual dues $10.

Royal Agricultural Society of England. 16 Bedford Square, London, England; T. McRow, Secretary; founded 1838; members 12,000; annual dues £1.

Royal English Arboricultural Society, Haydon Bridge, Northumberland, England; E. Davidson, Secretary; founded 1882; members 1400; annual dues 4s.; 7s. 6d.; £1 1s.

Royal Scott. Arboricultural Society, 19 Castle St., Edinburgh, Scotland; R. Galloway, Secretary; founded 1854; members 1430; annual dues £1 1s.; 10s.; 6d.; 6s.; 4s.

Société Centrale d'Agriculture de Belgique, Brussels, Belgium. No particulars given.

Society de Agriculture, Rio de Janicro; Moura Brazil, President.

Ver. f. Geschichte u. Landesk. Osnabruck, Germany; Herr Brunk, Secretary; founded 1848; members 400; annual dues 4M.

Bacteriology

American Society of Pathologists and Bacteriologists, Boston, Mass. Harold C. Ernet, Secretary; founded 1900; members 200; annual dues $4.

British Medical Association (sect. Bacteriology), London, England.

Society of American Bacteriologists, Glenolden, Pa.; A. Parker Hitchens, Secretary; founded 1899; members 500; annual dues $5.

Chemistry

American Ceramic Society, Edward Orton, Columbus, Ohio, Secretary.

American Chemical Society, Washington, D. C.; C. L. Parsons, Secretary; founded 1876; members 12,000.

American Dyestuff Manufacturers Association. C. Cyril Bennett, 149 Broadway, New York City.

American Electrochemical Society, South Bethlehem, Pa.; Prof. Joseph W. Richards, Secretary; members 1550.

American Institute of Chemical Engineers, Cooper Union, New York, N. Y.; J. C. Olsen, Secretary; members 275.

Apotekare-Societetens, Stockholm, Sweden. No particulars given.

Association des Chemistes de Sucrerie et de Distillerie, Paris, France. No particulars given.

Association of German Chemists, Germany, Stephanstr. 8 pt., Leipzig, Germany; B. Rassow, Secretary; founded 1887; members 6000; annual dues 20M.

Associatione Chimica Industriale di Torino; Dr. Giancomo Ciamician, Torino, Italy.

Belgium Société Chimique, 7 Galerie du Travil, Brussels, Belgium; J. Wauters, Secretary; founded 1887; members 500; annual dues 10 f.

Berlin Ver. Chem. Reichsanstalt, Berlin, Germany; R. Pschorr, Secretary; founded 1908; annual dues 1000M.

Bunsen Gas. (Applied Physical Chemistry), Mozartstr. 7 Leipzig, Germany; J. Wagner, Secretary; founded 1894; members 800; annual dues 25M.

Canadian Section of the Society of Chemical Industry; Alfred Burton, Hon. Secretary, Toronto, Canada.

Cercle de la Chimie, 54, Rue de Turbigo, Paris IIIe, France.

Chemical, Metallurgical and Mining Society of South Africa, James Moir, Cape Town, South Africa.

Chemical Society of Prague, Prague, Austria. No particulars given.

Chem.-Physicians Ges. of Vienna, Turkenstr. 3; E. Krause, Secretary; founded 1874; members 185; annual dues 4 kr.

Chemistry Division, M. and M. Society of S. Africa, 9 S. A. School of Mines Bldg. Eloff St., Johannesburg, S. Africa; E. Rowland, Secretary; members 200; annual dues £2 2s.

Deutsche Chem. Ges. Germany, Sigismundstr. 4, W. 10, Berlin, Germany; B. Lepsius, and H. Jost, Secretaries; founded 1867; members 3500.

English Ceramic Society, County Pottery Laboratory, Stoke-on-Trent; J. W. Mellor, Secretary; founded 1900; members 300; annual dues 15s.

Holland, Nederlands, Chem. Ver., Drift 14, Utrecht, Holland; P. A. Meerburg, Secretary; founded 1900; members 450; annual dues 10 Gld.

Institute of Brewing of London, Brewers Hall, Addle St., London, E. C., England. Julian L. Baker, Secretary; founded 1886; members 1000; annual dues 25s.

Institute of Chemistry of London, 30, Bloomsburg Square, W. C.; R. B. Pilcher, Secretary; founded 1877; members 1420; annual dues £1 1s.

International Association of Chemical Societies, care of Chemical Society, Burlington House, London, England; A. W. Crossley, Secretary; founded 1911; members 20,000.

International Association for Testing Materials; H. M. Rowe, (New York) founded 1895; members 3500; annual dues $2.50.

International Petroleum Commission, Tech. Hochsch., Karlsruhe, Germany; L. Ubbelohde, Secretary; founded 1907; members 300.

International Rubber Testing Commission, J. E. Fol, General Secretary, Delft, Holland; (Secretary for Great Britain, Herbert Wright, Secretary, 59, Eastcheap, London, England) founded 1909; members 500.

Manufacturing Chemists' Association of the United States, Garrett Bldg., Baltimore, Md.; members 46.

National Association of Cement Users. Richard L. Humphreys, Philadelphia, Pa.

National Research Council. Chemistry Committee, Marston Taylor Bogert, Chairman, Munsey Bldg., Washington, D. C.; founded 1911.

Pharmaceutical Society of Japan, Tokyo, Japan.

Schweizerische Chemische Gesellschaft, Basel, Switzerland.

Schweizerische Gesellschaft fuer Chemische Industrie, Zofingen, Switzerland.

Sociedad Aragonesa de Ciencias Naturales, Zaragoza, Spain.

Sociedad Espanola de Fisica y Quimica, Madrid, Spain. Prof. Gonsalez Marto, Secretary, Universidad de Madrid; members 300.

Sociedad Fomento Fabril, Santiago, Chili.

Sociedad Quimica Argentina; Calle Lavalle, 1790; Buenos Aires, Argentina.

Société de Chemie Physique, Paris. M. Charles, 98 Rue du Cherche-Midi, Paris.

Société de Chimie Industrielle, Paris, France. Organized 1917. Le Secrétaire Général. 49. Rue de Mathurins, Paris, France.

Societa Chimica Italiana; Dr. Giacomo Ciamician, Torino, Italy.

Société de Chim.-Physicians of Paris, 9, Rue de Pagneux; C. Marie, Secretary; founded 1908; members 225; annual dues 5 fr.

Société Chimique de France, 44; Rue de Rennes, Paris, France; P. Freundler, Secretary; founded 1857; members 1200; annual dues 36 fr.

Société Generale des Fabricants de Sucre de Belgique, Brussels, Belgium. No particulars given.

Société Royale des Sciences Medicales et Naturalles de Bruxelles, Brussels, Belgium. No particulars given.

Société Technique et Chimique de Sucrerie de Belgique, Brussels, Belgium. No particulars given.

Society of Chemical Industry, London, Broadway Chambers, Westminster, S. W., Prof. Henry Louis, President; C. G. Cresswell, Secretary; founded 1881; members 4500; annual dues £1 5s.

Society of Chemical Industry, Tokyo; Prof. Jokichiro Yemori, Tokyo, Japan.

Society of Chemical Industry of Victoria, Melbourne, Australia. No particulars given.

Society Chim. of Portugal, 141, Lusiadas, Lisbon, Portugal; H. Mastbaum, Secretary; founded 1911; members 100; annual dues 5 Mil.

Society of Dyers and Colourists, 30 Pearl Assurance Bldgs.; J. B. Atkinson, Secretary; founded 1884; members 950; annual dues £1 1s.

Society of Public Analysts of London-8, Duke St., Aldgate, E. C.; E. Richards Bolton and P. A. Ellis Richards, Secretaries; founded 1874; members 400; annual dues £1 1s.

The Chemical Society, Burlington House, London, W.; Stanley E. Carr, Assistant Secretary; founded 1841; members 3225; annual dues £2.

Verein Oesterreichisher Chemiker, Wien, Austria. No particulars given.

Ver. deutscher Eisenhuttenleute Germany, Breite Str. 27, Dusseldorf, Germany, E. Schrodter, Secretary; founded 1860; members 6000.

Vesterreichische Gesellschaft zur Nörderung der Chemischchen, Prague, Austria. No particulars given.

Zentralverein fuer die Ruebenzucker-Industrie Oesterreichs und Ungarns, Wein, Austria. No particulars given.

Engineering

American Institute of Electrical Engineers, 29 W. 39th St., New York, N. Y.

American Institute of Metals, Buffalo. N. Y.; W. M. Cores, Secretary; members 350; dues $10.

American Institute of Mining Engineers, Engineers Bldg., 29 W. 39th St., New York City; Bradley Stoughton, Secretary; members 6000; dues $12.

Association franc. des Eng. de Propriete Indust. of France, 19, Rue Blanche, Paris, France.

Associazione Elettrotechia Italiana. Prof. Carlo Parropassu, General Secretary, Paroda, Italy.

Chemical, Metallurgical and Mining Society of South Africa; James Moir, Cape Town, South Africa.

Cold Storage and Ice Association of London, 3 Oxford Court, Cannon St.; J. Raymond, Secretary; founded 1900; members 150; annual dues £1 1s.

Engineering and Science Association of Ireland, 43, Dawson St., Dublin, Ireland; A. E. Porte and G. Idle, Secretaries; founded 1903; members 230; annual dues 15s.

Institute of Metals of London, Caxton House, Westminster; G. Shaw-Scott, Secretary; founded 1908; members 600; annual dues £2 2s.

Institute Mining Engineers of London, 39 Victoria St., Westminster; L. T. O'Shea and P. Strzelecki, Secretaries; founded 1889; members 3500.

Institute Mining and Metallurg of London, Salisbury House; C. McDermid, Secretary; founded 1892; members 2500; annual dues £3 3s.

International Congress Mines and Geology, 1915, London, England.

Iron and Steel Institute, London, 28 Victoria St., Westminster; G. C. Lloyd, Secretary; founded 1869; members 2400; annual dues £2 2s.

Mining Institute of Scotland, 39 Elmbank Crescent, Glasgow, Scotland; J. Barrowman, Secretary; founded 1878; members 675; annual dues £2 2s. £1 5s.

North of England Institute Mining & Mechanical Engineers, Neville Hall, Newcastle; L. Austin, Secretary; founded 1852; members 1300; annual dues £2 2s.

Société de l'Industrie Minerale, Saints Etienne, Loire, France.

Société Internationale des Electriciens, 292 Rue St. Martin, Paris, France.

The Illuminating Engineering Society, London; R. Lessing, 317 High Hilborn St., London, W. C., England. No particulars given.

The Institute Gas Engineers, London, 39 Victoria St., S. W.; W. T. Dunn, Secretary; founded 1863; members 875; annual dues £1 1s.

West of Scotland Iron and Steel Institute, 39 Elmbank Crescent, Glascow, Scotland; R. G. Jenkins, Secretary; founded 1892; members 450; annual dues £1 1s.

Geology and Mineralogy

Edinburgh Geology Society, 1 India Bldgs., Edinburgh, Scotland; W. T. Gordon, Secretary; founded 1834; members 250; annual dues 12s. 6d.

Geology Society of America, care of American Museum Natural Hist., New York; E. O. Hovey, Secretary; founded 1888; members 375; annual dues $10.

Geology Society of Belgium, 7, Place de l'Universite, Liege, Belgium; P. Tourmarier, Secretary; members 350; annual dues 15 fr.

Geology Society of Glasgow, 207 Bath St.; P. Macnair, Secretary; founded 1858; annual dues 10s.

Geology Society of London, Burlington House; A. S. Woodward, Secretary; founded 1807; members 1300; annual dues £2 2s.

Geology Society of South Africa, P. O. Box 1071, Johannesburg, South Africa; G. S. Corstorphine, Secretary; founded 1895; members 200; annual dues £2 2s.

Geology Ver. of Frankfurt, Viktoria Allee, 7, Frankfurt a. M.; Geh. Rat.; F. Drevermann, Secretary; founded 1910; annual dues 10M.

German Geology Society, Invalidens tr. 44, Berlin, Germany; Dr. Bartling and Dr. Fleigel, Secretaries; founded 1848; members 1000; annual dues 30M.

German Mineralogy Society, Jena; G. Linck, Secretary; founded 1908; members 275; annual dues 7½M.

Ges. f. Mineralogy u. Geology of Jena, Mineralogy Institute; K. Kolesch, Secretary; founded 1909; members 130; annual dues 2M.

Hungarian Geology Society, Stefania ut 14, Budapest; K. v. Papp, Secretary; founded 1850; members 800; annual dues 10 Kr.

International Congress of Hydrology, Climatology and Geology; 18 rue Beaujon, Paris, France; Ch. Amat. Secretary; founded 1904.

Italian Geology Society, Via S. Susanna 13, Rome, Italy; A Verrie, Secretary; founded 1881; members 300; annual dues 15 lire.

Liverpool Geology Association, Lord Derby Museum, William Brown St.; annual dues 5s.

Liverpool Geology Society, Royal Institution; W. A. Whitehead, Secretary; founded 1859; members 80; annual dues 10s. 6d.

Royal Geology Society of Cornwall, Penzance, England; J. B. Cornish, Secretary; founded 1814; members 100; annual dues £1 1s.

Société de Mineralogy de France, 1 Rue Victor Cousin, Paris, France; R. Tronquoy, Secretary; founded 1878; members 155; annual dues 20 fr.

Société Geology de France, 28 Rue Serpente, Paris, France; P. H. Tritel and F. Canu, Secretaries; founded 1830; members 525; annual dues 30 fr.

Society of Geology, Paleontology and Hydrology of Belgium, Brussels, Belgium, 19 Rue Tasson Snel; Baron L. Greindl, Secretary; founded 1887; members 500; annual dues 15 fr.

Geology

Geologists' Association of London, University College, London, England; A. L. Leach, Secretary; founded 1858; members 800; annual dues 10s.

Geology Ges. Vienna, Franzensring 3; F. X. Schaffer, Secretary; founded 1907; members 342; annual dues 10k.

Geology Society of Luxembourg, Arlon, Rue St. Jean, 59; A. Jerome, Secretary; founded 1894; members 60; annual dues 5 fr.

Imperial Mineralogy Society of St. Petersburg, Russia; F. N. Tschernyschew, Secretary; founded 1817; members 400; annual dues 5 Rub.

Manchester Geology and Mining Society, 5 John Dalton St., Manchester, England; S. A. Smith, Secretary; founded 1838; members 400; annual dues £2 2s.

Mexican Geology Society, 6a, Cipres 176, Mexico; P. Waitz, Secretary; founded 1904; members 120; annual dues $12 Mex.

Minerology Ges. of Vienna, Vienna, Austria; A. Himmelbauer, Secretary; founded 1901; members 152; annual dues 10k.

Minerology Society of London, London, England, Natural History Museum, S. Kensington; G. T. Prior, Secretary; founded 1876; members 150; annual dues £1 1s.

Oberrheinischer Geology Ver., Heidelberg, Germany; W. Salomon, Haberle, Secretary; founded 1871; members 460; annual dues 5M.

Stodkholm Geology Association, Stockholm, Sweden; H. Munthe, Secretary; founded 1871; members c. 450.

Yorkshire Geology Society, Sheffield, Burnside, Pitsmoor Road; annual dues 13s.

VIII. PUBLICATIONS

I. TECHNICAL AND SCIENTIFIC JOURNALS, UNITED STATES AND FOREIGN

Abstracts of Bacteriology. bm. $5.00d $5.50f. Williams & Wilkins Co., Baltimore, Md.

Acetylene, 30 Red Lion Square, London, E. C.

Agricultural Gazette of New South Wales, The. m (6d.)d. Minister of Agriculture, Sydney, N. S. W.

Agricultural Journal of India, The. q R6 (R2)d and f. Messrs. Thacker, Spink & Co., Calcutta, India.

Algemeine Forst- und Jagd-Zeitung. m M16d. J. D. Sauerlander, Frankfurt am Main.

Allgemeine Zeitschrift für Bierbrauerei und Malzfabrikation. w K12d. K12 and postage, f. Berein Osterreich. Versuchs-station und Akademie für Brau- und Malz-industrie in Wien, Michaelerstrasse Nr. 25, Wien XVIII/1.

American Brewer, The m. $6.00 ($.50/d. A. Schwarts Sons, 200-202 Worth St., New York City.

American Brewers Review. m $5 ($.50) d, $6f. American Brewers Review Co., 327 S. La Salle St., Chicago, Ill.

American Druggist and Pharmaceutical Record. m $1d. 62-8 W. Broadway, New York City.

American Fertilizer, The. bw $2 ($.25) d, $3f, $2.50 Can. Ware Bros., 1010 Arch. St., Philadelphia, Pa.

American Food Journal, The. m $1.50. ($.15)d, $2.50f. 15-21 S. Market St., Chicago, Ill.

American Gas Engineering Journal (formerly The American Gas Light Journal). w 2 vols. $3d, $5f. E. P. Callender, 42 Pine St., New York City.

American Journal of Anatomy, The. bm $5d, $5.50f. Wistar Institute, 36th St. and Woodland Ave., Philadelphia, Pa.

American Journal of Botany. m $4 ($.50)d, $4.40f. 41 N. Queen St., Lancaster, Pa.

American Journal of Diseases of Children. m $3 ($.30)d, $3.35 ($.30)f. American Medical Association, 535 N. Dearborn St., Chicago, Ill.

American Journal of the Medical Sciences, The. m $5d. Lea & Febiger, Philadelphia and New York.

American Journal of Pharmacy. m $3 ($.25)d. 145 N. 10th St., Philadelphia, Pa.

American Journal of Physiology, The. m 4 vols. $5.50 per vol. Williams & Wilkins Co., Baltimore, Md.

American Journal of Public Health. m [N.S.] $3 ($.30)d, $3.50 ($.80)f. $3.25 Can. 755 Boylston St., Boston, Mass.

American Journal of Science, The. m 2 vols. $6d, $6.25 Van., $6.40f. New Haven, Conn.

American Journal of Syphilis. q. $d. ($5.40 Canada, $5.50f.) C. V. Mosby Co., St. Louis, Mo.

American Naturalist, The. m $4 ($.40)d. Science Press, Lancaster, Pa.

American Perfumer and Essential Oil Review, The. m $1($.10)d, $2($.20)f. Perfumer Publishing Co., 80 Maiden Lane, New York City.

American Photography. m $1.50 ($.75)d, $2.25f. American Photography Publishing Co., 221 Columbus Ave. Boston, Mass.

Anales del instituto médico nacional. Irr Secretaría de Instrucción Publica y Bellas Artes, Mexico City.

Anales de la sociedad espanola de fisica y quimica. m, except Aug. and Sept., 15 pesetas, d. D. Ramón Llord y Gamboa, Calle de Jorge Juan num. 59, Madrid, Spain.

Anales de la sociedad quimica Argentnia. q Rue Carlos Pellegrini, 62 Buenos Aires, Argentine Rep.

Analyst, The. m. L1, 1s(2s)d Simpkin, Marshall, Hamilton, Kent & Co., Ltd., 2, 4, 6, 8, Orange St., London, S. W., England.

Anatomischer Anzeiger. Irr about 3 vols., 24 nos. per vol. M16d. Gustav Fischer, Jena.

Anatomical Record, The. m $3d, $3.25f. Wistar Institute, 36th St. and Woodland Ave., Philadelphia, Pa.

Annalen der Chemie, Justus Liebig's. sm 4 vols. of 3 nos. each. M24d. C. F. Winter'sche Verlagshandlung. Leipzig. Rossstr. 6.

Annalen der Physik. C. F. Winter'sche Verlagshandlung, Rosstr. 6. Leipzig.

Annals of Botany. q 30s (14s)d, (15s6d)f. Humphrey Milford, Oxford University Press, Amen Corner, London, E. C.

Annales de chimie m F25d, F28f (or F45d and F50f for both Am. chim and Ann. phys.). Masson et Cie, Boul. Saint-Germain, 120, Paris.

Annales de chimie analytique et Revue de chimie analytique. m F10 (F1)d, F12(F1)f. C. Crinon, 45 Rue Turenne, Paris 3.

Annales des falsifications. m F20(F2)d, F22.50(F2)f. 56 Rue Madame, Paris VI.

Annuaire géologique et minéralogique de la Russie. Irr F20 (F5)f. M. c. Directeur, Novo-Alexandrie, gov. Lublin, Russia.

Annales d'hygiene publique et de médicine légale. m F24d, F25f. J. B. Baillière et Fils, 19 Ruehautefeuille, Paris.

Annales de l institut Pasteur. m $4d. Masson & Cie, 120 Blvd. St. Germain, Paris.

Annales des mines. m[11] 2 vols. F20 Paris, F24d, F32f. H. Dunod and E. Pinat, 47–49 Quai des Grands-Augustins, Paris.

Annales de physique. m F25d, F28f (or 45d, F50f, for both Ann. phys. and Ann. chim.). Masson et Cie, Boul. Saint-Germain 120, Paris.

Annalen der Physik. 15 nos. yearly, 3 vols. M54d. J. A. Barth. Dörrienstrasse 16, Leipzig.

Annales de la science agronomique française et étrangère. m 2 vols. F24d, F26f. Berger-Levrault, 5–7 rue des Beaux Arts, Paris, France.

Annali ds chimica applicata. sm L30d, L34f. G. Paterno, Via Palermo, N 3, Roma.

Annali d igiene sperimentale. 4 times a year. L18f. Corso Raffaello 28, Torino, Italy.

Annals of Tropical Medicine and Parasitology. Irr 1£2s6d d. University Press of Liverpool, 57 Ashton St., Liverpool.

Apotheker-Zeitung. bw M10 d and f (25 pfg)f. Deutschen Apotheker-Verein, 87 Levetzowstr. 16b, Berlin N. W. 87.

Apotheker-Zeitung, Deutsch-Amerikanische. m $1. 104 John St., New York.

Arbeiten aus dem Kaiserlichen Gesundheitsamte, about 8 nos. a year, 2 or more vols., price varies. Julius Springer, Berlin.

Archief voor de Rubberculture in Ned. Indië. No information received on price and issues per year. Ruygrok & Co., Batavia, Java.

Archiv für Anatomie und Physiologie. 1914. M54d (both) Physiol. Abteilung 6 nos., Heft 1 and 2, M26; Anatom. Abteilung 6 nos., Heft 1 M40d. Veit & Co., Leipzig.

Archives de biologie. Irr F50d. Masson & Cie, Paris.

Archiv für Chemie und Mikroskopie. bm K6d. Wilhelm Frick, 1 Graben 27 bei der Pestsäule, Wien.

Archiv für Entwicklungsmechanik der Organismen. Irr 4 nos. to a vol., 1 or 2 vols. (2). Price varies. Wilhelm Engelmann, Leipzig, Ger.

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Archiv für die gesamte Physiologie des Menschen und der Tiere (Pflüger's). Irr (4). Price varies. Martin Hager, Argelanderstr., 148, Bonn.

Archiv fur Gynaekologie. Irr August Hirschwald, Unter den Linden, 26, Berlin, N. W.

Archiv für Hygiene. Irr about 4 vols. $14.75. R. Oldenbourg. Munich.

Archives of Internal Medicine, The. m 2 vols. $4.00($.50)d, $4.40f. $4.25 Can. American Medical Association, 535 Dearborn St., Chicago, Ill.

Archives internationales de pharmacodynamie et de therapie. F20d. E. Gley, Rue Monsieur le Prince, 14, Paris.

Archives internationales de physiologie. Irr F20d and f. Leon Fredericq, Liege, Belgium, or Octave Doin, Paris, Place de l'Odeon 8

Archiv für Kinderheilkunde. Irr M15. Prof. Dr. A. Baginsky, Berlin W, Kurfürstenstr., 98 p.

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Archives de médicine expérimentale et l'anatomie pathologique. bm F30d, F34f. Masson et Cie, 120 Boulevard Saint-Germain, Paris.

Archives Néerlandaises des sciences exactes et naturelles. Irr La Société Hollandaise des Sciences á Harlem, Holland.

Archiv für pathologische Anatomie und Physiologie und für klinische Medizin (Virchow's). m M64d Georg Reimer, Berlin W., 10 Genthiner Strasse.

Archiv der Pharmazie. m M12f. Deutschen Apotheker-Verein, Berlin N. W. 87, Levetzowstr, 16b.

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Archiv Schiffs- und Tropen-Hygiene. Irr M20d, M24f. J. A. Barth, Dörreinstrasse 16, Leipzig.

Archivio per le scienze mediche. bm L20d, L22f. B. Morpurgo and R. Fusari, Corso Rafaello, 30 Torino, Italy.

Archives des sciences physiques et naturelles. m, 2 vols. F25(F3)d,F 30(F3)f, Bureau des Archives, Rue de la Pélisserie, 18, Geneva.

Archief voor de Suikerindustrie in Nederlandsch-Indie. w W. C. Dickhoff, Editor, Surabaya, Java.

Archiv für Verdauungs-Krankheiten. bm M4.60d. S. Karger, Karlstrasse 15, Berlin.

Archiv für Zellforschung. Irr Price varies. Wilhelm Engelmann, Berlin.

Arkiv för Kemi, Mineralogi och Geologi. Irr K15f. Almquist and Wiksells Boktryckeri-A.-B., Upsala, Sweden.

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Atti della r. accademia delle scienze di Torino. Libreria Fratelli Bocca, Via Carlo Alberto 3, Torino.

Atti del r. instituto d'incoroggiamento di Napoli. a, Naples, Italy.

Australian Sugar Journal, The. m 5s(6d)d. E. J. T. Barton, Brisbane, Queensland, Australia.

Bayerisches Brauer-Journal. w M6d. Wilh. Tümmels Buch und Kunstdrickerei, Nürnberg, Germany.

Beihefte zum Tropenpflanzer. Irr. Supplement to der Tropenflanzer. Der Tropenpflanzer, Parisen Platz 7, Berlin, N. W.

Beiträge zur Mineralogie von Japan. Irr Kelly & Walsh, Yokohama, Japan

Beiträge zur pathologischen Anatomie und zur allgemeinen Pathologie. Irr $11.50. Gustav Fischer, Jena.

Berichte der deutschen chemischen Gesellschaft. 18 nos. a year. M25d, M32f. R. Friedländer & Sohn, Berlin, N. W., Karlstr. 11.

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Berichte über die Verhandlungen der K. Sächsischen Gesellschaft der Wissenschaften. M1.60 to M4d and f. B. G. Teubner, Leipzig.

Berliner klinische Wochenschrift. w $5.00 Aug. Hirschwald, Berlin.

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Berichte der deutschen pharmazeutischen Gesellschaft. M20f. R. Schering. Berlin N 4, Schausseestr. 24.

Berichte der deutschen physikalischen Gesellschaft. sm M20d. Friedr. Vieweg & Sohn, Braunschweig, Germany. See Verhandlungen.

Beton und Eisen. M16d, M21f. Wilhelm Ernst & Sohn, Wilhelmstrasse 90, Berlin W 66.

Betterave, La. bw F6(F.30)d, F7.30 (F.35)f. Rue de Mons, 32, Valenciennes.

Biedermanns Zentralblatt für Agrikultur Chemie und rationellen Landwirtschaftsbetrieb. m M22d. Oskar Leiner, Königstrasse 26b, Leipzig.

Biochemical Bulletin. q $2.75 (varies) d, $3f. Columbia Univ. Biochemical Assoc. New York City.

Biochemical Journal, The. bm 21sd. C. F. Clay, Cambridge Univ., Press, Fetter Lane, London, E. C.

Biochemische Zeitschrift. Irr M14d. Julius Springer, Berlin.

Biological Bulletin, The. m $6d, ($0.75)f. New Era Printing Co., Lancaster, Pa.

Bohmische Bierbrauer, Der. w (N.S.) K16d. Prag, 872–II.

Boletin del instituto nacional de higiene de Alfonso XIII. q 1913. Imprenta de Hijos de Nicolás Moya, Garcilaso, 6 y Carretas, 8, Madrid, Spain.

Bollettino chimico farmaceutico. sm L8 (L.50)d, L10(L50)f. Via Fiori Oscuri N. 13 (Farmacie di Brera) Milano.

Boston Medical and Surgical Journal. w 2 vols. $10d. W. M. Leonard, 101 Tremont St., Boston.

Botanical Abstracts. m 2 v. a year. $6.00d, $6.50f for 2 vol. Williams and Wilkins Co, Baltimore, Md.

Botanisches Centralblatt. w M30d. Gustav Fischer, Jena.

Botanical Gazette, The. m $7($.75)d, $7.84($.86)f. $7.35 ($.78)Can. Univ. of Chicago Press, Chicago, Ill.

Bourse aux cuirs de Liége. w F5d, F6f. 24, Quai des Tanneurs, Liége, Belgium.

Brasserie et malterie. sm 4 (20). F20d, F20 and postage, f. M. Lassort, 7, Rue des Jardiniers, Nancy France.

Brau- und Mälzer-Zeitung. sm K10d M10f. Leichtensteinstrasse, 30, Vienna, IX.

Brau- und Malzindustrie, Die. sm K16d, M16f. Schwarzenbergplatz, 4 Vienna, III/3.

Brewer and Wine Merchant, 73 Farringdon St., London, E. C.

Brewers' Gazette, 2 Devonshire Sq., London, E. C.

Brewers' Journal and Hop and Malt Trades' Review, The (London). m (583). 20s(2s)d. The Brewers' Journal Office, Eastcheap Bldgs., London, E. C.

Brewers' Journal, The (New York). m $5($.50). The Brewers' Journal Inc., No. 1 Hudson St., New York City.

Brewing Trade Review, The. m (332). £1d. W. H. Phelp, 30 Little Trinity Lane, Upper Thomas Str., London, E. C.

Brick and Clay Record. sm. $2($.20)d, $3f. Kenfield-Leach Co., 445 Plymouth Court, Chicago, Ill.

British Clayworker, The. m. 8s (8d) d. 43 Essex St., Strand, London.

British Food Journal and Hygienic Review. m. 7s6d(7½ d)d. Harold E. Carr, 32 Shaftesbury Ave., Picadilly Circus, London W.

British Journal of Photography. w. $3.17(2d)d, 8s(2d)f. Henry Greenwood & Co., 24 Wellington St., Strand, London.

British Medical Journal. w (2766). (6d)d. 429 Strand W. C., London.

British and Colonial Druggist. 194 Bishopgate, London, E. C., England.

Bryggeritidende. m K5(K.50)d, K6f. Fredericksberg Alle 55, Copenhagen V.

Bulletin de l'académie royale de médicine de belgique. F10d. F11.50f. Secretariat de l'Academie, Au Palais des Academies, rue Ducale, Bruxelles.

Bulletin de'lacadémie impériale des sciences de St. Petersbourg. Academie des Sciences, St. Petersburg.

Bulletin of Agricultural Intelligence and Plant Diseases, M. zm Frs. 18 (Frs.2) d. International Institute of Agriculture, Rome.

Bulletin of the American Institute of Mining Engineers. m $10d($1). H. A. Wisotzkey, 212–218 York St., York, Pa.

Bulletin de l'association des chimistes de sucrerie et de distillerie. m F20 (F2)d, F25f. L. Raimbert, 156 Boulevard Magenia, Paris.

Bulletin of the Department of Agriculture, Trinidad and Tobago. m (3d)d. Board of Agriculture, Trinidad.

Bulletin Geological Institution, University of Upsala. Hj. Sjögren, Upsala, Sweden.

Bulletin of the Geological Society of America. q $10, $7.50 to institutions. 420 11th St., N. W., Washington, D. C.

Bulletin of the Imperial Institute. 4 nos. a year. 10s(2.6)d, 11s(2.9)f. John Murray, Albemarle Street, London, W.

Bulletin internationale de l'académie des sciences de Cracovie. A. m K8(40h)d: B. m 1914. K10d. Imprimerie de l'Université, Krakau, Austria.

Bulletin of the Johns Hopkins Hospital, The. m $2.00($.25)d, $2.50f. The Johns Hopkins Press, Baltimore, Md.

Bulletin of Pharmacy. m $1($.10)d. E. G. Swift, Detroit, Mich.

Bulletin de pharmacie du sud-est. m F6(75c)d, F8f. L. Ginies, pl. St. Denis, Montpellier, France.

Bulletin de la section scientifique de l'académie roumaine. m F10(F1)d and f. Bucarest Academie roumaine, 135 Calea Victorisi, Bucarest or Gauthier-Villars, 55 Quai des Grands Augustins, Paris.

Bulletin de la classe des sciences de l'academie royale de belgique. About m F12–14d, F17.50–20f. Imprimerie Hayez, Rue de Louvain, 112, Brussels, Belgium.

Bulletin des sciences pharmacologiques. m F15(F1.50)d, F18f. Prof. E. Perrot, 56 Rue Madame, Paris (62 Arrondissement).

Bulletin de la société botanique de France. Au Siege de la Société, Rue de Grenelle, 84.

Bulletin de la société chimique de France. sm. F37d, F38f. Masson et Cie., 120, Boulevard Saint-Germain (6), Paris.

Bulletin de la société chimique de belgique. m M. Jules Wauters, Palais du Midi, Galerie du Travail, 7, Brussels, Belgium.

Bulletin de la société d'encouragement pour l'industrie nationale. m Free to members: dues F36. 44, rue de Rennes, Paris.

Bulletin de la société française de mineralogie. m F20(F3d, and f. M. Léon Bourgeois, 1 Boulevard Henri, IV, Paris.

Bulletin de la société française de photographie. m F15(F1.50)d, F18(F1.50) f. Rue de Clichy, 51, Paris.

Bulletin de la société geologique de France. 1rr Free to members. Société Géologique de France, 28, rue Serpente, Paris, VI.

Bulletin de la société scientifique d'hygiène alimentaire et d'alimentation rationnelle de l'homme. 10 nos. a year. F13 d (F1.50)d and f, F15f. Masson et Cie., 120 Boulevard Saint-Germain, Paris.

Bulletin de la société imperiale des naturalistes de Moscou. a Moscow.

Bulletin de la société industrielle d'Amiens. q F12f. G Stora, 45 Rue des Capucins, Amiens.

Bulletin de la société de l'industrie minérale. m F35d, F40f. La Société, 19 rue du Grand Moulin, Saint Etienne

Bulletin de la société industrielle de Mulhouse. m F50d. F60f. Veuve Bader et Cie., Mulhouse, Ger.

Bulletin de la société industrielle de Rouen. bm (Free to members, dues F20.) Place de la Cathédrale & 2 Rue Ampere, Rouen, France.

Bulletin de la société internationale des électriciens. m F25(F2.5)d, F27 (F 2.5)f. Gauthier-Villars et Cie, Quai des Grands-Augustins, 55, Paris.

Bulletin des trauvaux de la société de pharmacie (de Bordeaux). m F5d, F6f. M. Pery, tresorier, 40 all. de Tourny, Bordeaux.

Bulletin of the Torrey Botanical Club. $3($.30)d. Dr. B. O. Dodge, Dept. of Botany, Columbia Univ., N. Y. City.

Bulletin U. S. Public Health and Marine Hospital Service Hygienic Laboratory. Irr. U. S. Treasury Department.

Buletinul societâtii Române de Stiinte. bm F25d and f. Societâtii Române de Stiinte, Splaiul General Magheru 2, Bucharest, Roumainia.

Bureau of Mines, Bulletins, Circulars and Technical papers. Government Printing Office, Washington, D. C.

Bureau of Standards, Bulletins, Circulars, Technical papers, etc. Government Printing Office, Washington, D. C.

Cairo Scientific Journal, The. m P. T.60(P.T.5). Honorary Editor, Dawawyn Post Office, Egypt.

Canada Department of Mines (Geological Survey) Bulletins, Memoirs and Reports. Government Printing Bureau, Ottawa, Can.

Canadian Engineer, The. w $3 ($.10)d. 62 Church St., Toronto, Ontario, Canada.

Canada Geological Survey. Government Printing Bureau, Ottawa.

Canadian Chemical Journal. m $2.00 Bigger Press, Ltd., 36 Toronto St., Toronto, Canada.

Canadian Medical Association Journal, The. m $5($.50)d. Morang & Co., Ltd., Toronto, Can.

Caautchouc et la gutta-percha, La. m F20d, F26f. 49, Rue des Vinaigriers, Paris.

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Milk Production. C. W. Larson. 8vo. Price 3s. 6d. Oxford University Press.

Milk: Laboratory Guide in Market Milk. H. E. Ross. 8vo. 64 pp. Price $0.60. The Macmillan Co., New York.

Milk: The Pasteurization of Milk; a Handbook Relating to the Installation, Operation and Control of Pasteurizing Plants. C. H. Kilbourne. 16mo. 248 pp. Price $1.25. John Wiley & Sons, New York.

Milk: The Modern Milk Problem in Sanitation, Economics and Agriculture. J. S. MacNutt. 8vo. 258 pp. Price $2.00. The Macmillan Co., New York.

Milling: A Treatise on Milling and Milling Machines. Cincinnati Milling Machine Co. 8vo. 409 pp. Price $2.00. G. E. Stechert & Co., New York.

Milling: Modern Milling. Ernest Pull. 8vo. 207 pp. Price $3.00. The Macmillan Co., New York.

Mineral: Mineral Foote-Notes. Vol. I, No. 11. Published by Foote Mineral Co., 107 No. 19th St., Philadelphia, Pa.

Mineral: Mineral Industry. Vol. 24. Edited by G. A. Roush. 8vo. 1000 pp. Price $10.00. McGraw-Hill Book Co., New York. 1915.

Mineral: Mineral Industry during 1916. Edited by G. A. Roush. 8vo. 937 pp. Price $10.00. McGraw-Hill Book Co., New York.

Minerals: Chemical Tests for Minerals. A. J. Burdick. 12mo. 93 pp. Price $1.25. Gateway Publishing Co., Beaumont, Cal.

Minerals: Tables for the Determination of the Common Minerals and Rocks. W. A. Tarr. 16mo. 25 pp. Price $0.40. University Co-operative Store, Columbia, Mo.

Minerals: The World's Minerals. L. J. Spencer. Rev. Ed. 8vo. 327 pp. Price $2.75. F. A. Stokes & Co., New York.

Mineralogy: Elements of Mineralogy, Crystallography and Blowpipe Analysis. A. J. Moses and C. L. Parsons. 5th Ed. 8vo. 631 pp. 575 illustrations. Price $3.00. D. Van Nostrand Co., New York.

Mineralogy: Descriptive Mineralogy. W. D. Bayley. 8vo. 542 pp. Price $3.50. D. Appleton & Co., New York.

Mine Supplies: The Efficient Purchase and Utilization of Mine Supplies. H. N. Strouck and J. R. Billyard. 12mo. 97 pp. Price $1.25. John Wiley & Sons, New York.

Mining: Elements of Mining. G. J. Young. 8vo. 628 pp. Price $5.00. McGraw-Hill Book Co., New York.

Mining and Mine Ventilation. J. J. Walsh. 8vo. 187 pp. Price 8s. 6d. A. Constable & Co., London.

Mining: A Text-book on Coal Mining Science. Joseph Parker. 8vo. 422 pp. Price 3s. Oliver & Boyd, Edinburgh.

Mining: The Elements of Coal Mining. Daniel Burns. 8vo. 232 pp. Price $1.10. Longmans, Green & Co., New York.

Mining: The Elements of Mining and Quarrying. C. DeN. Foster. 3d Ed. 8vo. 341 pp. Price 7s. 6d. Charles Griffin & Co., London.

Mining: Mining World Index of Current Literature. Vol. 9. G. E. Sisley. 207 pp. Price $2.00. Mining World Co., Chicago.

Mining: Scientific Mining; Modern Ideas. M. T. McDonough. 8vo. 109 pp. Price $3.50. News Publishing Co., Wheeling, W. Va.

Molybdenum: Its Ores and Their Concentration. Frederick W. Horton. Pp. vi plus 132. Price $0.30. Government Printing Office, Washington. 1916.

Mycology: A Text-book of Mycology and Plant Pathology. J. W. Harshberger. 12mo. 779 pp. Price $3.00. P. Blakiston's Son & Co., Philadelphia.

Nickel: Report of the Royal Ontario Nickel Commission. Pp. 584 plus 219. A. T. Wilgress, Toronto. 1917.

Oil: Practical Oil Geology. Dorsey Hager. 2d Ed. 16mo. 187 pp. Price $2.00. McGraw-Hill Book Co., New York.

Oils, Fats and Waxes: Technical Handbook of Oils, Fats and Waxes. Vol. I. P. F. Fryer and F. E. Weston. 8vo. 279 pp. Price 9s. Cambridge University Press.

Oils: Drying Oils, Boiled Oil and Solid and Liquid Driers. L. E. Andes. 2d Ed. 8vo. 340 pp. Price 12s. 6d. Scott Greenwood & Son, London.

Oil-Field Developments and Petroleum Mining. A. B. Thompson. 8vo. 692 pp. Price 25s. Crosby Lockwood & Son, London.

Ozone: Its Manufacture, Properties and Uses. By A. Vosmaer, Ph.D. Pp. xii plus 197. Price $2.65. Constable & Co., Ltd., London. 1916.

Paints: Chemistry and Technology of Paints. Maxmilian Toch. 2d Ed. 8vo. 366 pp. Price $4.00. D. Van Nostrand Co., New York.

Paint: The Industrial and Artistic Technology of Paint and Varnish. A. H. Sabin. 2d Ed. 8vo. 473 pp. Price $3.50. John Wiley & Sons, New York.

Paint Researches and Their Practical Application. H. A. Gardner. 8vo. 384 pp. Price $5.00. The Author, Washington, D. C.

Paper: Handmade Paper and Its Watermarks. Dard Hunter. 8vo. 22 pp. Technical Association of the Pulp and Paper Industry, New York.

Paper: A History of Paper Manufacturing in the United States. L. H. Weeks. 8vo. 352 pp. Price $3.00. Lockwood Trade Journal Co., New York.

Paper: Its History and Manufacture. H. A. Maddox. 12mo. 159 pp. Price $0.85. Sir Isaac Pitman & Sons, New York.

Paper: The Chemistry of Paper-Making. R. B. Griffin and A. D. Little. 8vo. 517 pp. Price $6.00. G. E. Stechert & Co., New York.

Papermaking: A Text-book of Papermaking. C. F. Cross and E. J. Bevan. 4th Ed. 8vo. 507 pp. Price $4.50. Spon & Chamberlain, New York.

Paraffin: The Vaporizing of Paraffin for High Speed Motors. Edward Butler. 12mo. 120 pp. Price $1.25. J. B. Lippincott Co., Philadelphia, Pa.

Patents: Chemical Patents and Allied Patent Problems. Edward Thomas. 8vo. Price $2.50. John Byrne & Co., Washington, D. C.

Patents: Walker on Patents. 5th Ed. 8vo. 1300 pp. Price $12.00. Baker, Voorhis & Co., New York.

Pattern Making: James Ritchey. Rev. Ed. 12mo. 222 pp. Price $1.50. American Technical Society, Chicago.

Pavements: A Text-book of Brick Pavements. C. R. Mandigo. 12mo. 126 pp. Price $1.50. Western Paving Brick Manufacturers' Association, Kansas City.

Periodicals: Technical Periodicals. The National Carbon Co. 22 pp. Publicity Department, The National Carbon Co., Cleveland, O.

Petrol Engine, the Magneto and the Carburettor. A. E. Berriman. 2d Ed. 8vo. Price 2s. 6d. Methuen & Co., London.

Petroleum: The Analytical Distillation of Petroleum. By W. F. Rittman and E. W. Dean. Price $0.15. Government Printing Office, Washington. 1916.

Petroleum: List of Books on Petroleum. 8vo. 16 pp. Library of the Mechanics' Institute, San Francisco.

Petroleum: Petroli ed Emanazioni I'errestri ("A Petroleum and Terrestrial Emanations"). By Dr. Icilio Guareschi. Unione Tipografico-Editrice Torinese, Torino. 1917.

Petroleum: The American Petroleum Industry. Vols. I and II. By Raymond Foss Bacon, Ph.D., and William Allen Hamor, M.A. Price $10.00. McGraw-Hill Book Co., New York.

Photographers: Chemistry for Photographers. W. R. Flint. 12mo. 205 pp. Price $2.00. American Photographic Publishing Co., Boston, Mass.

Physical Chemistry of Vital Phenomena. J. F. McClendon. 8vo. 240 pp. Price $2.00. Princeton University Press, Princeton, N. J.

Physical Science: Laws of Physical Science. E. F. Northrup. 12mo. 210 pp. Price $2.00. J. B. Lippincott Co., Philadelphia.

Physics; with Applications. H. S. Carhart and H. N. Chute. 8vo. 469 pp. Price $1.25. Allyn & Bacon, Boston.

Physics: Technical Physics. J. L. Arnold. 12mo. 275 pp. Price $2.00. McGraw-Hill Book Co., New York.

Physiology: The Essentials of Chemical Physiology. W. D. Halliburton. 9th Ed. 8vo. 324 pp. Price $1.75. Longmans, Green & Co., New York.

Pigments: Anthocyanin Pigments. M. Wheldale. 8vo. 318 pp. Price $4.50. G. P. Putman's Sons, New York.

Plants: An Outline of the Chemistry of the Structural Elements of Plants. C. F. Cross and Others. New Ed. 8vo. 320 pp. Price $4.50. Longmans, Green & Co., New York.

Plants Poisonous to Live Stock. H. C. Long. 8vo. 119 pp. Price 6s. Cambridge University Press.

Power Plants: Engineering of Power Plants. R. H. Fernald and G. A. Orrols. 8vo. 581 pp. Price $4.00. McGraw-Hill Book Co., New York.

Power: The Cost of Power. G. B. Gould and C. W. Hubbard. 16mo. 125 pp. Price $2.00. Fuel Engineering Co., New York.

Power Stations: Large Electric Power Stations; Their Design and Constructin. G. Klingenberg. 8vo. 260 pp. Price $5.00. D. Van Nostrand Co., New York.

Power: Hydro-Electric Power—Vol. I of Electrical Equipment and Transmission. Lamar Lyndon. 8vo. 498 pp. Price $5.00. McGraw-Hill Book Co., New York.

Power Plants and Refrigeration: Mechanical Equipment of Buildings. L. A. Harding and A. C. Willard. Vol. 2. 8vo. 766 pp. Price $5.00. John Wiley & Sons, New York.

Problems: One Hundred Chemical Problems. E. Arthur Mason, B.Sc. (Hons.) 8 pp. Price 6d. net. G. Bell & Sons, Ltd., London. 1917.

Properties: Tables of Properties of Over Fifteen Hundred Common Inorganic Substances. Wilhelm Segerblom. 2d Ed. 8vo. 144 pp. Price $3.00. Exeter Book Publishing Co., Exeter, N. H.

Pumps and Dredges: Centrifugal Pumps and Suction Dredges. E. W. Sargeant. 8vo. 188 pp. Price $3.25. J. B. Lippincott Co., Philadelphia, Pa.

Radioactivity: La Radioactivitè et les Principaux corps radioactifs. A. Muguet. 18mo. 202 pp. O. Doin et fils, Paris.

Radiodynamics: B. F. Miessner. 8vo. 206 pp. Price $2.00. D. Van Nostrand Co., New York.

Rare Earths: Introduction to the Rarer Elements. By Philip E. Browning, Ph.D. 4th Ed. Pp. x plus 250. Price $1.75. John Wiley & Sons, Inc., New York. Chapman & Hall, Ltd., London. 1917.

Refining Industry in the United States. Oil and Gas Journal. Price $1.00. Oil and Gas Journal, Tulsa, Okla.

Refrigeration: A Practical Treatise on the Production of Low Temperatures. M. W. Arrowood. 12mo. 272 pp. Price $1.50. American Technical Society, Chicago.

Refrigeration: The Elements of Refrigeration. A. M. Greene. 8vo. 472 pp. Price $4.00. John Wiley & Sons, New York.

Research: Memorandum on the Organization of Scientific Research Institutions in the United States of America. By Gerald Lightfoot, M.A., F.S.S. Printed and Published for the Government of the Commonwealth of Australia by Albert J. Mullett, Government Printer for the State of Victoria.

River Discharge: Prepared for the Use of Engineers and Students. J. C. Hoyt and N. C. Grover. 4th Ed. 8vo. 210 pp. Price $2.00. John Wiley & Sons, New York.

Roads: Construction of Roads and Pavements. T. R. Agg. 8vo. 432 pp. Price $3.00. McGraw-Hill Book Co., New York.

Roads: Modern Road Construction. A. T. Byrne. 8vo. 200 pp. Price $1.00. American Technical Society, Chicago.

Roads: Practical Road Building. C. E. Foote. 12mo. 295 pp. Price $1.25. David McKay, Philadelphia.

Royal Society: Annals of the Royal Society Club. By Sir Archibald Geikie, O.M., K.C.B., D.C.L., Past President of the Royal Society. Pp. xv plus 504. Macmillan & Co., Ltd., London. 1917.

Royal Society: Transactions of the Royal Society of Edinburgh. Vol 1i., part ii. Session 1915–16. Vol. 1i., part iii. Sessions 1915–16–17. Price $8.25 and $8.75. R. Grant & Son, Edinburgh.

Salicylic Acid: Étude physico-chimique sur la formation de l'aspirine. M. Champeil. 8vo. Adolphe Jourdan, Algiers.

Salt: A History and Description of the Manufacture and Mining of Salt in New York State. Charles J. Werner. 8vo. 144 pp. Price $7.50. Charles J. Werner, 44 Whitehall St., New York.

Sampling: The Principles and Practice of Sampling Metallic Metallurgical Materials with Special Reference to the Sampling of Copper Bullion. Edward Keller. Pp. vii plus 102. Price $0.20. Government Printing Office, Washington.

Sanitation Practically Applied. H. B. Wood. 8vo. 473 pp. Price $3.00. John Wiley & Sons, New York.

Sanitation: Practical Sanitation. George Reid, M.D., D.P.H. 18th Ed., Revised. Pp. xii plus 367. Price $1.50. Charles Griffin & Co., Ltd., London. 1916.

Sanitation and Sanitary Engineering. W.P. Gerhard. 2d Ed. 12mo. 175 pp. Price $0.50. The Author, New York.

Science: Applied Science. Les Sciences physiques et naturelles avec leurs applications a l'agriculture a l'indusdustrie, etc. J. Dutilleul A E. Rame. 8vo. 192 pp. Price 1 fr. 50. Larousse, Paris.

Science: An Introduction to the History of Science. W. Libby. 12mo. 288 pp. Price $1.50. Houghton, Mifflin Co., Boston.

Science: A List of Books on the History of Science. A. G. S. Josephson. 4to. 139 pp. Price $0.25. John Crerar Library, Chicago.

Scientific Works: Bibliographie des travaux scientifiques. J. Deniker. 4to. 206 pp. Price 5 fr. Ernest Leroux, Paris.

Sewage: The Activated Sludge Process of Sewage Treatment. A Bibliography of the Subject with Abstracts. J. E. Porter. 8vo. 40 pp. Price $0.25. General Filtration Co. Rochester, N. Y.

Smoke: Scientific Treatise on Smoke Abatement. By H. Hamilton, A.R. San.I., A.M.I.Mech.E., Pp. xiii plus 155. Price $1.25. Sherratt & Hughes, Manchester. 1917.

Soap: Its Composition, Manufacture and Properties. W. H. Simmons. 12 mo. 124 pp. Price $0.85. Isaac Pitman & Sons, New York.

Soap: William H. Simmons, B.Sc. (Lond.) F.C.S. Pp. ix plus 124. Price $0.50. Sir Isaac Pitman & Sons, Ltd., London, Bath, New York, and Melbourne.

Soil: Soil Conditions and Plant Growth. By Dr. E. J. Russell. 3d Ed. Pp. viii plus 243, plus diagrams. Price $1.65. Longmans & Co., London.

Soil Biology: A Laboratory Manual. A. L. Whiting. 12mo. 152 pp. Price $1.25. John Wiley & Sons, New York.

Soils and Fertilizers. L. J. Lyttleton. 12mo. 255 pp. Price $1.10. The Macmillan Co., New York.

Soldering, Brazing and Welding. B. E. Jones. 8vo. 156 pp. Price 1s. Cassell & Co., London.

Solution: The Nature of Solution. H. C. Jones. 8vo. 380 pp. Price $3.50. D. Van Nostrand Co., New York.

Smoke: Scientific Treatise on Smoke Abatement. H. Hamilton. 8vo. 168 pp. Price 5s. Sherratt & Hughes, London.

Spectroscopy. Collected Papers on Spectroscopy. C. D. Liveing and James Dewar. 4to. 566 pp. Price $9.00. G. P. Putnam's Sons, New York.

Steam: Watt and the Steam Age. J. W. Grant. 8vo. 212 pp. Price 7s. 6d. St. Brides Press, London.

Steam-Boilers: Their Theory and Design. H. D. Parsons. 5th Ed. 8vo. 377 pp. Price $4.00. Longmans, Green & Co., New York.

Steam Boilers. R. H. Kuss. 8vo. 138 pp. Price $1.00. American Technical Society, Chicago.

Steam Boilers: Their Construction, Care and Operation. C. F. Swingle. 16mo. 303 pp. Price $1.50. Frederick J. Drake & Co., Chicago.

Steam Turbines. W. J. Goudie. 8vo. 519 pp. Price $4.00. Longmans, Green & Co., New York.

Steam Charts and Special Tables for Turbine Calculations. F. O. Ellenwood. 4to. 43 pp. Price $1.00. John Wiley & Sons, New York.

Steam Piping: Its Economical Design and Correct Layout. A. L. Johnston, Jr. 12mo. 62 pp. Price $2.00. Engineering Magazine Co., New York.

Steam Power. Hirshfield and Ulbricht. 8vo. Price 8s. 6d. Chapman & Hall, London.

Steam Turbines: a Treatise Covering U. S. Naval Practice. G. J. Meyers. 246 pp. Price $4.50. U. S. Naval Institute, Annapolis.

Steam Turbines. W. S. Leland. 8vo. 137 pp. Price $1.00. American Technical Society, Chicago.

Steam Turbines. J. A. Moyer. 8vo. 468 pp. Price $3.50. John Wiley & Sons, New York.

Steel: The Story of Bethlehem Steel. Arundel Cotter. 12mo. 63 pp. Price $0.75. Moody Magazine Book Co., New York.

Steel: Metallurgy of Steel. J. F. W. Harbord and J. W. Hall. 2 vols. 5th Ed. 8vo. 933 pp. Price $12.50. J. B. Lippincott Co., Philadelphia.

Steel: L'industrie de l'acier en France. Y. Tribot-Laspière. 8vo. 355 pp. Ch. Hérissy, Évreux.

Stones: British and Foreign Marbles and other Ornamental Stones. John Watson. 8vo. 485 pp. Price 5s. Cambridge University Press, London.

Strength of Materials. J. E. Boyd. 8vo. 380 pp. Price $3.00. McGraw-Hill Book Co., New York.

Stresses: Stresses in Structures. A. H. Heller and C. T. Morris. New Ed. 8vo. 374 pp. Price $2.75. John Wiley & Sons, New York.

Stresses in Structures. A. H. Heller. 3d Ed. 8vo. Price 11s. 6d. Chapman & Hall, London.

Stresses in Structural Steel Angles. L. A. Waterbury. 8vo. 77 pp. Price $1.25. John Wiley & Sons, New York.

Structural Materials: Wood and Other Organic Structural Materials. C. H. Snow. 8vo. 478 pp. Price $5.00. McGraw-Hill Book Co., New York.

Sugar: Calculations Used in Cane-Sugar Factories. I. H. Morse. 2d Ed. 189 pp. Price $2.00. John Wiley & Sons, New York.

Sugar: Sulfitation in White Sugar Manufacture. Francis Maxwell. 8vo. 82 pp. Price 7s. 6d. Norman Roger, London.

Sulfuric Acid: The Manufacture of Sulfuric Acid and Alkali; a Theoretical and Practical Treatise. Supplement to Vol. I. George Lunge. 4th Ed. 8vo. 347 pp. Price $5.00. D. Van Nostrand Co., New York.

Sulfuric Acid Tables. H. C. Moore. 8vo. 36 pp. Price $2.00. Commercial Fertilizer, Atlanta, Ga.

Tanning: Practical Tanning. L. A. Fleming. 615 pp. Price 30s. Crosby Lockwood & Son, London.

Technical Chemists' Handbook; Tables and Methods of Analysis for Manufacturers of Inorganic Chemical Products. George Lunge. 2d Ed. 12mo. 264 pp. Price $3.50. D. Van Nostrand Co., New York.

Textiles: Les Arts textiles. G. Lemaire and A. Chaplet. 18mo. 338 pp. Price 5 fr. Paul Brodard, Paris.

Textiles: American Textile Report and Directory. 25th Ed. 8vo. 829 pp. Dockham Publishing Co., Boston.

Theoretical Chemistry from the Standpoint of Avogadro's Rule and Thermodynamics. Walter Nernst. Rev. Ed. 8vo. 853 pp. Price $5.00. The Macmillan Co., New York.

Thermo-chemistry and Thermodynamics: A Text-book of Thermo-chemistry and Thermodynamics. Prof. Otto Sachur, Ph.D. Translated and Revised by G. E. Gibson, Ph.D. Pp. xvi plus 439. Price $3.00. Macmillan & Co., Ltd., London. 1917.

Thermodynamic: Correction Tables for Thermodynamic Efficiency. C. H. Naylor. 8vo. Price 5s. Edward Arnold, London.

Toxic Jaundice: The Origin, Symptoms, Pathology, Treatment, and Prophylaxis of Toxic Jaundice Observed in Munition Workers. 106 pp. Price $1.90. Longmans, Green & Co., London, New York, Bombay, Calcutta, Madras.

Tractor: The Modern Gas Tractor. V. W. Page. 12mo. 504 pp. Price $2.00. Norman W. Henley Publishing Co., New York.

Tube Milling. A.Del Mar. 8vo. 159 pp. Price $2.00. McGraw-Hill Book Co., New York.

Turbines Applied to Marine Propulsion. J. S. Reed. 2d Ed. 180 pp. Price 12s. A. Constable & Co., London.

Valves: Locomotive Valve and Valve Gears, with a Special Treatise on Valve Setting. J. H. Yoder and G. B. Wharen. 8vo. 272 pp. Price $3.00. D. Van Nostrand Co., New York.

Ventilation: Some Modern Methods of Ventilation. R. Grierson. 8vo. 202 pp. Price 8s. 6d. Archibald Constable & Co., London.

Vinegar: Vinegar, Its Manufacture and Examination. C. A. Mitchell. 12mo. 201 pp. Price $2.75. J. B. Lippincott Co., Philadelphia.

Water: Examination of Water; Chemical and Bacteriological. W. P. Mason. 5th Ed. 12mo. 186 pp. Price $1.25. John Wiley & Sons, New York.

Water: Tabulated Data with Explanatory Notes Relating to Flow of Water under Pressure through Clean Closed Pipes. G. T. Prince. 149 pp. Price $2.00. D. Van Nostrand Co., New York.

Water Purification. J. W. Ellms. 8vo. 485 pp. Price $5.00. McGraw-Hill Book Co., New York.

Water Supply. W. P. Mason. 4th Ed. 8vo. 538 pp. Price $3.75. John Wiley & Sons, New York.

Welding: A Practical Manual of Autogenous Welding (Oxyacetylene). R. Granjon and P. Rosenberg. Translated by D. Richardson, Wh.Ex.A.M. I.M.E. 4th Ed. Pp. xxii plus 244. Price $1.25. Charles Griffin & Co., Ltd. London. 1916.

Welding: Oxy-acetylene Welding Practice. R. J. Kehl. 8vo. 110 pp. Price $1.00. Acetylene Journal Publishing Co., Chicago.

Welding: Oxy-acetylene Welding. S. W. Miller. 8vo. 287 pp. Price $2.50. Industrial Press, New York.

Wheat and Its Products. A. Millar. 12 mo. 134 pp. Price $0.85. Sir Isaac Pitman & Sons, New York.

Wood: The Preservation of Wood. By A. J. Wallis-Tayler, A.M.I.C.G. Pp. xix plus 372. Price $2.65. William Rider & Son, Ltd., London.

Wool Industry. P. T. Cherington. 8vo. 256 pp. Price $2.50. A. W. Shaw Co., Chicago.

X-Rays. G. W. Kaye. 8vo. 2d Ed. 285 pp. Price $3.00. Longmans, Green & Co, New York.

X-Rays: Bibliography of Titles on Röntgen Rays. American Research Institute. 4to. Price $2.50. The American Research Institute, Washington, D. C.

Year Book: The Chemists' Year Book 1917. Edited by F. W. Atack, M.Sc. (Tech.) (Manch.), B.Sc.(Lond.) F.I. C., assisted by L. Whingates, Assoc. M.S.T., in Two Volumes. 3d Ed. Pp. 62 plus 1030. Price $2.65. Sherratt & Hughes, London and Manchester. 1917.

Year Book: Year Book of Pharmacy and Transactions of the British Pharmaceutical Conference, 1916. 572 pp. Price $2.50. J. and A. Churchill, London.

IX. NEWS AND NOTES

Acetaldehyde. An improved process to derive acetaldehyde from acetylene has been perfected by the American Carbide Company of New York City.

Ammonia. The United States War Department has adopted the General Chemical Company's process for making synthetic ammonia.

Synthetic ammonia is being produced by the United States Department of Agriculture at the Arlington (Virginia) Farm Laboratory.

Ammonium Nitrate. The United States War Department has appointed the Air Nitrates Corporation its agent to build and operate a plant at Muscle Shoals, Alabama, to manufacture ammonium nitrate.

Amyl Acetate. The Kraus-Millett Company, Portsmouth, New Hampshire, have brought out a new solvent as a substitute for amyl acetate.

Antitoxins. New York City Department of Health Laboratories are a chief producing center of antitoxins.

Arsenic. The arsenic industry of the United States is under the direction of the Food Administration.

Arsphenamine. Arsphenamine is manufactured by the Dermatological Research Laboratories, Philadelphia, Pennsylvania; Takamine Laboratory, Inc., New York City; and Farbwerke-Hoechst Co. of New York City.

Badische Company of New York has been purchased and incorporated by Kuttroff, Pickhardt & Company, Inc.

Barium Binoxide, manufactured by the Rollin Chemical Company, Inc., Charleston, West Virginia, is reported to have stood stronger and higher tests than the imported variety.

Barrett Company, New York City, have increased their capital stock to $37,500,000.

Bauxite. A large increase in the production of bauxite in Georgia and Alabama is reported for 1917.

Benzol. In 1917 there were seventy concerns in the United States with benzol recovery apparatus. The estimated production of benzol for 1917 was 35,000,000 gallons.

Bromine. The Midland Chemical Company, Midland, Michigan, is one of the largest producers of bromine.

Camphor. Receipts from South China are practically at a standstill.

Carbide. The Union Carbide and Carbon Corporation of New York City will take over the stock of the Union Carbide Company, the National Carbon Company, Inc., Prest-O-Lite Company, Inc., and Linde Air Products Company.

Castner Electrolytic Alkali Company, Niagara Falls, N. Y., has been absorbed by the Mathieson Alkali Works, Inc., Saltville, Virginia.

Castor Oil. Aeroplane motor lubrication has developed a heavy demand for castor oil.

Chemical Exposition. (*see National Exposition of Chemical Industries*).

Chemists. A number of American manufacturers of dyes are employing as many as twenty-five to seventy-five or more chemists each in their research departments.

Through the efforts of the United States Bureau of Mines and the American Chemical Society, a complete detailed census was taken of more than 15,000 American chemists.

Consolidations and Authorizations. Sherwin-Williams Company have increased their authorized capital to $21,000,000.

They have moved their chemical and color department to the Pullman Station, Chicago.

The Kalbfleisch Corporation, 31 Union Square, New York City, has taken over all the interest of the Franklin H. Kalbfleisch Company, Erie Chemical Works, the Kalbfleisch Corporation and the Kaloid Company. Five plants are owned and operated by this organization at Brooklyn, N. Y.; Waterbury, Conn.; Elizabethport, N. J.; Erie, Pa.; and Chattanooga, Tenn.

National Aniline & Chemical Company, Inc., 244 Madison Ave., New York City. Included in this corporation are the following manufacturers: Schoellkopf Aniline & Chemical Works, Standard Aniline Products, Inc., W. Beckers Aniline & Chemical Works, and Benzol Products Co. Also certain plants and properties of the General Chemical Company, The Bar-

rett Company, Semet-Solway Company. The corporation also represents the Rollin Chemical Company and other domestic and foreign manufacturers.

New Jersey Products Company was incorporated to take over the sales end of the various activities of Thomas A. Edison, Inc.

The United States Industrial Chemical Company, authorised capital $24,000,000, is a reorganization of the Curtis Bay Chemical Company. The new organization is owned by the United States Alcohol Company.

Copra is being crushed by Spencer Kellogg & Sons, Inc., at Edgewater, New Jersey.

Cream of Tartar. This product is practically unobtainable in the English market. A principal source of supply has been the Italian manufacturers.

Cyanide. Cyanide is being manufactured on a large scale by the Roessler-Hasslacher Chemical Company, at St. Alban's Virginia, Niagara Falls, New York, and Perth Amboy, New Jersey.

Dyes. The American Colors Company will manufacture dyes at Scranton, Pennsylvania.

The American dye industry has invaded the foreign market in European neutral and allied countries, South America, Canada, Japan and India.

The Brassard Company, Inc., New York City, are offering hydrosulphon dyes.

Methylene blue and Methyl violet are being used as anti-antiseptics in Germany.

A decided improvement in the quality and variety of aniline dyes produced in the United States was noted in 1917. In 1918 it is expected that many of the more complicated German colors will be successfully produced.

It is estimated that in the early part of 1918 that there will be more than 150 firms actually producing anilines in the United States.

The Natural Aniline Company contemplates the manufacture of vat dyes on a large scale.

Drug and Chemical Markets quote weekly on nearly one hundred crudes and intermediates and over two hundred dyestuffs available in the United States market.

A conservative estimate of the capital invested in the American dyestuff industry is placed at $250,000,000.

In 1914, Germany was able to supply as many as 40,000 colors, shades and tints.

The total capital of seven German companies engaged in the manufacture of dyes and colors prior to 1914 was approximately $30,000,000.

Among the chief after-the-war competitors of German dye manufacturers will be the National Aniline and Chemical Company, E. I. Du-Pont de Nemours & Company, British Dyes, Ltd., Société Nationale de Matieres Colorantes of France and the Italian Dyestuff Company.

British Dyes, Ltd., is erecting the largest plant in the world for the manufacture of colors and dyes at Huddersfield, England.

Approximately eighty per cent. of the dyes being made and used in this country are satisfactory. Methods to perfect the remaining twenty per cent. are being developed.

Authorities claim that by the end of 1918 all necessary colors will be manufactured in this country.

American chemists and manufacturers have placed on the market 75 per cent. of the dyestuffs formerly imported.

When the war broke out in August, 1914, there were only six factories, employing possibly 350 to 400 operatives, manufacturing coal tar colors. An approximate 3,000 tons was the annual production of these plants. American dyestuffs in 1914 depended almost entirely upon the mere assembling of intermediates delivered from German sources. The total annual consumption of synthetic colors was about 27,000 tons in the United States in 1914. Of this quantity European sources imported approximately 25,000 tons. Today there are probably fifty responsible manufacturing establishments producing dyestuffs in America. The production is well over 35,000 tons. All synthetic colors are delivered entirely from American coal tar. Single corporations having a capital of $10,000,000, $20,000,000 and $50,000,000 and many of smaller capitalization are undertaking the responsibility of the establishment of the American dyestuff industry.

Dye produced in the United States in 1917 equaled in amount the annual imports before the war, but differed in the quantities of the various classes. The output of alizarin and vat dyes was less than 3 per cent of the amount usually purchased. The lack of de-

velopment of manufacture promises to be remedied to a considerable extent in 1918, for a number of firms have begun the manufacture of dyes on a large scale.

Coal-tar products produced in the United States last year amounted to, 54,367,994 pounds, worth $68,711,228 not including explosives and synthetic phenolic resins. Dyes amounted to nearly 46,000,000 pounds, valued at $57,796,027; medicinal chemicals, 2,236,161 pounds, worth $5,560,237, and flavors, 779,416 pounds, worth $1,863,-456. There were 81 establishments engaged in the manufacture of dyes alone.

In the classes of dyes, which, if imported, would be dutiable at 30 per cent plus 5 cents a pound, the American manufacturers have shown remarkable progress, producing 43,810,-359 pounds at a total value of $57,639,-990. That this represents something of an excess over the American needs is evidenced by the fact that during the fiscal year 1917, American-made dyes to the value of $11,709,287 were exported to other countries. Thus the exports exceeded the pre-war imports in total value although not in tonnage nor in the variety of the dyes.

Dyestuff Manufacturers. A convention, held in the Chemists' Club, New York City, January 2nd, and attended by more than two hundred dyestuff manufacturers, establish the American Dyestuff Manufacturers' Association.

Dyewood Extracts. The J. S. Young Company, Hanover, Pennsylvania, announce the development of a method of manufacturing dyewood extracts that will be revolutionary in its relation to the dyeing industry.

Educational. A number of Akron, Ohio, rubber companies have established at the Municipal University of Akron, thirty scholarships in the Engineering College.

Explosives. Materials used in the manufacture of military explosives include alcohol, ether, acetone, glycerin, cotton, charcoal, sulphur, sulphuric acid, ammonia, phenol, toluene, mercury, nitric acid, potassium nitrate, sodium nitrate and ammonium nitrate.

Exposition. (*see National Exposition of Chemical Industries.*)

Flotation. The Grouch flotation machine, built by the Grouch Centrifugal Flotation, Ltd., Cobalt, Ontario, makes it possible to recover various minerals by preferential selection.

Funnels. The Cambridge Glass Company, Cambridge, Ohio, have introduced improvements into the manufacture of chemical funnels.

Furnace. A highly successful furnace for testing refractory materials has been developed and is in use by the laboratories of H. Koppers Company and the Pittsburgh By-Product Coke Company.

An automatic furnace for heat treating high explosives and shrapnel shells has been developed by the Electric Furnace Company, Alliance, Ohio.

Glass. Scientific glassware is made by six very responsible organizations in the United States today. Previous to 1914, laboratory glassware was made only by the Whitall-Tatum Company, Millville, New Jersey, and the Kimble Glass Company, Vineland, New Jersey.

The tests conducted by the Bureau of Standards indicate that the American made wares of Pyrex, M. E. G. Co., Nonsol, Fry, and Libbey, are superior to Kavalier, and equal or superior to Jena ware for general chemical laboratory use.

Glycerin. The Department of Internal Revenue, Washington, D. C., reports a process for making glycerin from sugar.

Graphite. The electric furnace process produces approximately 5000 tons of artificial graphite.

Ceylon, Barbaria and Alabama are the chief sources of graphite. Graphite beds are being developed in more than twelve states.

The International Acheson Graphite Company is manufacturing large quantities of graphite at Niagara Falls, New York.

Gypsum. During 1917, approximately 3,000,000 short tons of crude gypsum were mined in the United States.

H Acid. An approximate 150 tons monthly is being produced.

Hardness Tester. Eimer and Amend, New York City, are showing an improved Brinnell hydraulic instrument that is larger, more substantial and easier to operate than the instruments previously supplied.

Impervite. Impervite tubes, for producing thermo-couples, possessing identical qualities and many superior features to the Imported Marquardt tubes, are being distributed by Charles Engelhard, 30 Church St., New York City.

Indigo. The ancient indigo industry of the Central American countries has been revived by the war.

The Chinese market is a prospective consumer of from 15,000,000 to 20,000,000 lbs. of indigo annually.

Indigo, Synthetic. Synthetic indigo is now manufactured by Levinstein, Ltd., Manchester, England, operating the plant formerly maintained in England by the German Company.

Intermediates. Practically every intermediate of importance was being produced in the United States at the end of 1917.

Laboratories. It was estimated that from 250 to 350 new industrial research laboratories were established in the United States in 1917.

Arthur D. Little Company, Inc., have completed a large and extensive laboratory building for the carrying on of their experimental work.

The Buffalo Foundry and Machine Company have added materially to the equipment in their chemical and physical laboratories.

Lamp, Improved Quartz Mercury Vapor. A quartz mercury vapor lamp embodying new features is being manufactured by the R. W. V. Company, New York City.

Licenses, Export, may be obtained from the Bureau of Foreign and Domestic Commerce, Division of Export Licenses, 1435 K St., Washington, D. C.; or branches of the Bureau of Foreign and Domestic Commerce in New York, Boston, Chicago, St. Louis, New Orleans, San Francisco, Seattle.

Licenses. German manufacturers of biological products have had their licenses revoked by the United States Public Health Service on account of their inaccessibility to inspection for an indefinite period of time.

Magnesite. A superior quality of magnesite is being mined at Rutherford, California.

The American Mineral products Company has undertaken the development of a large magnesite deposit in Stevens County, Washington.

Metric System. The American Metric Association is taking active steps to introduce the metric system in the United States.

Mining and Metallurgical Stations. The United States Government has selected the University of Washington campus as a site for its mining and metallurgical station for the Pacific Northwestern States.

National Aniline & Chemical Co., Inc. This organization has issued a report to the trade denying its control by German interests. It states that its aggregation of producing units are under exclusive American control adequate to safeguard American consumers from the disastrous conditions forced upon the country at the inception of the war in 1914.

National Exposition of Chemical Industries. An institution performing an important function in developing chemical interests in this country is the National Exposition of Chemical Industries held annually at the Grand Central Palace, New York, the fourth one to be given the week of September 23rd, 1918. The Exposition was organized in 1915 to foster the growth and bring about the development of chemical industries in America. It has more than fulfilled its original purposes; it has become an institution in the chemical industrial affairs of the country. The expansion of the Exposition is indicative in a measure of the growth of the chemical industries. In 1915, number of exhibits, 83; in 1916, number of exhibits, 188; and in 1917, number of exhibits, 323. In 1915 the visiting attendance was 63,000; in 1916 it was 80,000; and in 1917 the visiting attendance was 111,514.

Nitrates. The United States Government nitrogen plant is located at Muscle Shoals, Florence, Alabama.

Twenty million dollars was appropriated by Congress for the creation of a new nitrate supply.

Germany is reported to be manufacturing 500,000 tons of nitrogenous products annually.

Oxygen and Hydrogen. The following German manufacturers have combined to produce oxygen and hydrogen: The Gresheim Elektrom Company, The Linde Refrigerating Machinery Company, and the German Oxyhydric Company, controlling thirty factories, producing oxygen and hydrogen, have formed a selling combination.

Sodium Nitrate, produced by fixation process, is offered by Marden, Orth & Hastings Company, as the selling agents for the American Nitrogen Products Company, Seattle, Washington.

It is reported that E. I. Du Pont de Nemours Company have purchased extensive holdings in the new nitrate fields in Chili.

Nitrogen. Great Britain has established a Nitrogen Products Committee to perfect plans for the development of cyanamid, ammonia oxidation and experimental synthetic ammonia plants.

Novocain. The Rector Chemical Company of New York City and Farbwerke-Hoechst Company of New York City are now manufacturing and selling Novocain. It will be sold under the name "Pro-caine."

Ozokerite. The Wasatch Ozokerite Company, Soldier Summit, Utah, has placed pure ozokerite on the market.

Phenol. The 1917 production in the United States was variously estimated at from 25,000 to 35,000 tons. This was more than double the amount produced in 1916.

Phosphate Rock. Idaho, Utah, Montana and Wyoming are producing nearly 6,000,000,000 tons annually.

Picric Acid. The Aetna Explosives Company and the Butterworth-Judson Corporation are producing picric acid in large quantities.

Plants, Drug. The H. K. Mulford Company, Philadelphia, Pa., are conducting extensive experiments in order to increase domestic sources of supply of drug plants previously imported.

Platinum. New sources of supply for platinum are being developed in Columbia, South Carolina.

Platinum, Substitute. A gold-palladium alloy, known as "Palau," is offered as a substitute for platinum irridium alloy. Palau compares favorably with platinum ware in resistance. Fused alkali hydrosulphate has a decided effect, however.

Two alloys of gold and palladium are giving saisfaction in smelter and metallurgical laboratories.

Poisons. Among the poisonous substances encountered in the manufacture of explosives are hydrochloric, nitric and sulfuric acids; the fumes of nitrogen oxides, chlorine gas and sulfur dioxide; benzene and toluene and their derivatives, the nitrobenzenes and nitrotoluenes, phenol and sodium phenylate, the nitrophenols, ammonium picrate, aniline, diphenylamine, dimethylaniline, tetranitromethyaline; sulfuric ether, ethyl alcohol, methyl alcohol, ethyl nitrite, amyl acetate, caustic soda and tetrachlorethane.

Porcelain. Chemical porcelain equal to the best German porcelain is now produced commercially in the United States.

Porcelain, Electrical. The United States now excels all other countries in the manufacture of electrical porcelain.

Potash. Installation of the Cottrell System by cement kilns will yield 10,000 tons of K_2O per year.

Blast furnace flue dust may be made to yield about 150,000 tons of potash yearly.

Deposits of green sand along the New Jersey and Delaware coasts contain an approximate 7 per cent. of potash.

It is believed that the largest deposit of potash in solution is in Seares Lake, California.

Potash-felspar is available in unlimited quantities in the United States. The percentage of potash content is as high as the average output of the German mines.

Potassium Muriate. The Pacific Coast Borax Company, New York City, announces that they have placed muriate of potash on the market in the past year.

"Kraft" Pulp is manufactured by the American Paper and Pulp Corporation, Savannah, Georgia.

Pump. A dry vacuum pump, new vertical rotative type, is being built by the Wheeler Condenser and Engineering Company of Carteret, N. J.

Pyrometer. The Leeds and Northrup Company, Philadelphia, have developed a new optical pyrometer for works' use.

The Pyrolectic Instrument Company, Trenton, N. J., have developed an expansion pyrometer, using tin as the expansion element.

"Usalite" pyrometer protection tubes manufactured by Stupakoff Laboratories, Pittsburgh, possess remarkable mechanical strength and are impermeable to gases at the highest temperatures.

Quicksilver. The principal source of supply for quicksilver in the United States is California.

In 1917 the United States produced approximately 3,000,000 pounds of quicksilver.

Refractories. The manufacture of magnesium aluminate refractories on a successful commercial basis is assured through the process developed by the United States Bureau of Standards.

Rotary Cutter. An improved rotary was shown by Paul O. Abbé, New York City, at the Third National Chemical Exposition.

Russia. Chemical plants have been constructed in Russia for the manufacture of superphosphate, celluloid formation, lanolin, naphthalene, benzene, tanning materials, sulfuric acid and glass.

Salt. Deposits of salt sufficient to supply the world are found in the vicinity of Cleveland, Ohio.

Satolite. Satolite, a substitute for celluloid, is being manufactured in Japan by the Satolite Company, Sendai, Japan.

Ernest Scott & Company, Fall River, Mass., announce new apparatus and equipment as follows: Evaporators for caustic tests; installation reclaiming plants for handling waste from paper pulp mills, solvent extraction plants for reclaiming fats from bones and oils from seeds. Their new form of solvent extraction plant extracts oils from materials containing as high as 60 to 70 per cent. of moisture.

Scale, Liquid. The John Simmons, Co., 108 Center St., New York City, have brought out an improved automatic liquid weighing scale.

Screens. Stearns-Rogers, Denver, Colorado, are manufacturing a metal screen which will handle material as fine as 800 mesh.

Smoke Boxes. Smoke boxes, useful to vessels as a means of escape from submarines, are being manufactured by E. I. Du Pont de Nemours & Company, Wilmington, Delaware.

Smoke. Colored smoke for use in military operations has been patented.

Strontium Ore is being placed on the market from Arizona and California deposits.

Sulphur. More than 8,000,000 tons of sulphur is needed by the United States and her Allies yearly in the manufacture of munitions, fertilizers and sulphide paper.

The supply of native sulphur accumulated in Louisiana and Texas greatly exceeds the amount sold.

Sulphuric Acid. The United States expects to produce 1,500,000 tons more sulphuric acid in 1918 than in any previous year.

Japan is producing approximately 600,000 tons of sulphuric acid yearly.

The production of sulphuric acid in 1918 will reach 9,000,000 short tons.

Sulphuric acid is being manufactured by nearly two hundred plants in the United States.

The United States Government needs 6,000,000 tons of sulphuric acid in 1918.

Thermoline. Manufactured by Pittsburgh Thermoline Co., Pittsburgh, Pa., is stated to be a compressed liquefied petroleum gas of 2600 B. T. Us. per cubic foot. Each 12" Φ × 42" commercial cylinder contains 1,560,000 B. T. Us. The gas is offered as being ideal for laboratory use, general heating operations, platinum operations, and for extremely-high temperatures in connection with pure oxygen.

Thorium. Lindsay Light Company, Chicago, produces over 30 per cent. of the world's supply of thorium.

Tin. The American Smelting and Refining Company are smelting Bolivian tin ore at their Perth Amboy plant.

Toluol. Twenty-two million gallons of toluol is the estimate to be produced in the United States by September, 1918.

Toluene. The New Process Gasoline Company, Philadelphia, Pa., are producing toluene and profane from spruce turpentine.

Veronal. The Abbott Laboratories, Ravenswood, Chicago, are producing Veronal. The drug will be sold under the name "Barbital."

Zinc Oxide. A greater demand exists for zinc oxide than American plants are able to meet.

Zinc Smelting Process. A patent has been granted to Dr. Charles H. Fulton, Case School of Applied Science, Cleveland, Ohio, on a new zinc smelting process for which substantial advantages are claimed.

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Synchronous converters and motor-generators sets provide an economical method for changing electric power of any standard frequency and voltage from alternating to direct current or vice versa.

SWITCHBOARDS

For all ordinary requirements the necessary panels can be selected from the G-E catalogs of Standard Unit Panels, and combined into a switchboard that will satisfy every requirement of the installation. The advantages of this method are convenience in ordering, prompt shipment and low price, the latter two resulting from the elimination of engineering and drafting on the individual order. The standard unit system is explained in Bulletin 47001.

For high voltage plants and other cases where unusual requirements must be met, special switchboards are designed to meet any conditions of control.

Switchboard specialists are located at many of the principal offices of the company and will furnish data which will enable the engineer to specify a complete switchboard especially adapted to his particular requirements and with all parts built, assembled and tested as a unit by one company.

INSTRUMENTS—METERS

Switchboard and testing instruments and all kinds of electric meters cover fully the requirements for measurement of power.

REGULATORS

Automatic regulators are furnished for keeping the voltages constant on alternating or direct current power and lighting circuits.

GENERAL ELECTRIC COMPANY

TRANSFORMERS

Type H distributing transformers have unusually high factors of safety to ensure reliable service under the severest operating conditions, such as sleet, snow, lightning, overload, etc. The General Electric Company has standardized and carries in stock complete lines of these transformers in capacities 200 KV-A and less for potentials 6,600, 10,000, 13,200 and 33,000 volts.

G-E power transformers are built in all sizes and are operating very successfully on potentials as high as 150,000 volts. These transformers have superior features which ensure unusual ruggedness when operating under modern transmission conditions of high power and high potential where the strains due to abnormal current, voltage and frequency are unusually severe.

LIGHTNING-ARRESTERS

For alternating current circuits the aluminum arrester is recommended as giving the best protection attainable for station equipment.

For distributing transformers, the graded shunt resistance multigap or the compression chamber multigap arrester may be used. The former is sensitive over a wide range of lightning frequencies and should be installed for protection of the larger transformers. The compression chamber arrester, lower priced and slightly less efficient, should be used to protect all the smaller transformers.

For direct current circuits the magnetic blow-out arrester is available. Where a very high degree of protection is desired, aluminum arresters should be used.

WIRE AND CABLE

The General Electric Company manufactures wires and cables insulated with paper, varnished cambric, rubber or composite (graded) insulation. To meet different conditions of service these cables are furnished with protective coverings of cotton, asbestos, lead, band steel or wire armor.

LAMPS, INCANDESCENT AND ARC

Standard lighting units ranging from a 10-watt EDISON MAZDA lamp to the flame arc lamp for lighting large areas are carried in stock. Lighting specialists and illuminating engineers of the General Electric Company will assist in laying out any lighting system.

WIRING DEVICES

G-E reliable wiring devices include sockets, receptacles, switches, cut-outs, fuses, attaching plugs, rosettes, cleats, insulators, and numerous wiring specialties. All these types are N. E. C. standard.

MOTORS AND CONTROLLERS

ALTERNATING CURRENT MOTORS for 110, 220, 440 and 2,200 volts at all standard frequencies; constant or variable speed; for continuous or intermittent duty; hand or automatic control.

DIRECT CURRENT MOTORS for 115, 230 and 550 volts; slow or moderate speed; belt, chain, gear or direct drive. Constant, variable or adjustable speed for continuous or intermittent duty. Suitable control for any service.

All motors are insulated for long life. Specially insulated motors for service in acid or alkaline vapors, excessive alkaline dust, or temperatures as high as 150°C. can be furnished.

The General Electric Company has a motor for every power application, large or small, a controller for every motor and a specialist who can assist in the combined application to obtain the most satisfactory and economical results.

FLOW METERS

The General Electric Company has developed a practical device for measuring the flow of steam in pipes. The G-E steam flow meter can be installed in any sized pipe at a small expense, and will give reliable readings of the flow. They are specially useful in the boiler plant and turbine room for measuring the output of the individual boiler and the input of the turbines. G-E flow meters are also furnished for measuring the flow of water, air and natural gas.

BULLETINS—FURTHER INFORMATION

Only a few of the products of the General Electric Company are described above. Bulletins, giving information, illustrations and full data on complete electrical apparatus for the power house, will be mailed on application from our nearest office.

Lehigh Foundry Company

FULLERTON, PA.

Branch Office: 50 Church St. - - - - NEW YORK, N. Y.

PRODUCTS: Iron Castings of all description, made according to customers' specifications, up to fifty ton weights; Cylinders, Vacuum Pans, Condensers, Pump Castings, Rubbing Bed Plates for marble and slate plants, Scarifiers, Generators and Motor Castings, Drums, Cinder Ladles, Bases, Grate Bars, Engine Frames, Furnace Castings, Stokers and Acid and Heat Resisting Castings of all description.

LEHIGH FOUNDRY COMPANY'S PLANT, FULLERTON, PA.

SPECIALTY:

Castings of special mixture for the simultaneous resistance to heat and acid and chemicals, such as concentrating pans, retorts, fusing kettles, stills, autoclaves, salt cake pans, kettles, caustic soda pots, desilverizing kettles, decomposing pots, digestors, sulphate furnaces, acid eggs, blow cases and tanks. All castings are made according to customers' specifications, and the Lehigh Foundry Company is therefore not at liberty to illustrate or publish the various apparatuses and castings they manufacture.

A long series of experiments conducted in conjunction with acid and chemical manufacturers has enabled them to develop mixtures for the treatment of nitric, sulphuric, muriatic, acetic, hydrofluoric acids and fumes that has given a large patronage among the users of such equipment.

Studies are made of both the solution and temperature conditions and the mixtures arranged to meet the local conditions. These mixtures are intended for the simultaneous resistance to heat and acid or chemicals, and the success of the Lehigh Foundry Company in meeting these adverse conditions has given their mixtures an enviable reputation, both in the United States and Canada.

Lehigh Foundry Company

FULLERTON, PA.

Branch Office: 50 Church St. - - - - NEW YORK, N. Y.

NITRIC ACID RETORTS:

A large assortment of sweeps and patterns for these vessels permit their manufacture in many instances without expense to customer for initial equipment. One customer reported that Lehigh retorts installed in 1905 and 1907 were still in service at the time of this publication (1918).

SULPHURIC ACID PANS:

Exceptional records have been made by Lehigh pans in this department of the chemical and powder trade.

CAUSTIC SODA POTS:

The Lehigh Foundry Company is prepared to offer records of service their friends have been able to obtain from Lehigh pots in the treatment of caustic liquors. Their mixture for this purpose has been arranged so as to give maximum resisting qualities possible in this service, and providing against the danger of cracking under the variable temperature conditions to which these pots are subjected.

GENERAL CASTINGS:

Size, weight and intricacy offer no problems to us, as our experience of over twenty years has given us wonderful opportunity to meet all kinds of foundry conditions.

LOCATION:

Situated in the heart of the iron producing section of the Lehigh Valley and in close proximity to coal mines and sand pits, gives this company a commanding position in the making of its products.

MACHINE SHOP FACILITIES:

These include boring mills that will machine castings up to 17′ 5″ diameter x 10′ high, planer 6′ x 22′, radial drills, vertical and horizontal facing machines, large lathes, etc.

SOWERS MANUFACTURING CO.

1301 NIAGARA STREET BUFFALO, N. Y.

DOPP CAST IRON SEAMLESS STEAM JACKETED KETTLES,
MIXERS, VACUUM PANS, AUTOCLAVES,
SOAP MACHINERY

Standard Type
Kettle with Legs

Regularly made in 5 to 125 gallon sizes inclusive. 150 to 800 gallon sizes inclusive cast with lugs as illustrated below.

350 Gallon Rectangular Type
Inside dimensions: 8′ long; 3′6″ wide; 2′ deep.
Jacket comes within 7½″ of top.

Style "A-D" Mixer

Made in all sizes from 100 to 800 gallons inclusive. Built with either cast or wrought iron mixer.

Full jacket kettle with double motion mixer

Standard sizes 125-300-500 and 650 gallons. Special sizes built to order.

Style I Mixer

Made in all sizes from 100 to 800 gallons inclusive. Style B mixer similar except paddles horizontal instead of vertical.
Either style built with either wrought or cast iron mixer.

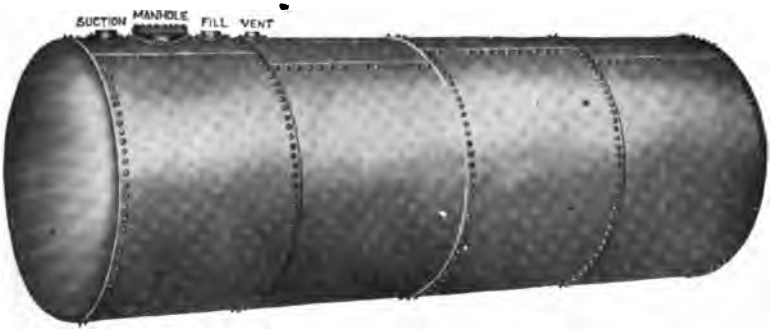
10-Gallon Standard Dopp Laboratory Vacuum Pan

With Bracket Type Belt Driven Sweep Mixer.

Standard Dopp Vacuum Pan

Built in 16 standard sizes from 10 to 1600 gallons (total contents) inclusive.

Standard Dopp Vacuum Pan, lower half being full jacketed and, in addition, provided with coils. Bracket type drive sweep mixer. Built in all sizes 100 to 1600 gallons (total contents) inclusive.



Standard Gasoline and Oil Storage Tank

Heavy Steel Pressure Tanks of every description

Steel Tanks of Every Description for Storage and Pressure. Jacketed Tanks, Agitating Tanks, Etc.

THE BIGGS BOILER WORKS CO.

AKRON, OHIO

BUCHTEL AVENUE AND BANK STREET

PFAUDLER

GLASS ENAMELED STEEL TANKS AND APPARATUS

Enable the manufacturer of chemicals to duplicate in his plant, as nearly as possible in larger bulk, those laboratory conditions of high resistivity and absolute sterility under which his experimental work was successful; for Pfaudler Apparatus is lined with **Glass**, of exceptional density, resistivity and tenacity.

We design and build one-piece or sectional **Mixing Tanks, Kettles, Stills, Vacuum Pans, Storage Tanks, Car Tanks** and many other types, either jacketed or single shell, open or closed, for **Heavy Chemicals, Pharmaceuticals, Oils, Fruit Products, Prepared Foods, Milk Products, Beverages** and other corrosive, permeative or sensitive liquids, and have helped in the improvement of a great many products.

THE PFAUDLER CO.: ROCHESTER, N. Y.

New York	**Chicago**	**San Francisco**
Boston	**Detroit**	**Minneapolis**
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New York Warerooms

50 Cliff Street, New York City

OFFICE: 154 Ogden Avenue, Jersey City, N. J.

WORKS: Jersey City, N. J.

Engineers, Manufacturers, Machinists, and Designers. We Fabricate Plate Steel, Copper, Brass, Tin, Aluminum, etc., of Any Shape. Designers and Makers of Special Apparatus for Manufacturing Industries.

A Partial List of What We Make

Air Washers
Alcohol Recovery and Purifying Apparatus
Alcohol Stills
Autoclaves
Bottle Sterilizers
Bread Racks
Cans
Can Washers
Canned Goods Sterilizers
Cheese Vats
China Kilns
Coil Boilers
Condensed Milk Coolers
Copper Lined Steel Tanks
Creosoting Tanks
Digesters
Drinking Glass Sterilizers
Drying Apparatus
Exhaust Manifolds
Extractors
Filter Presses
Fruit Washers
Galvanized Tanks
Gasoline Tanks
Gasometers
Glass Kilns
Glass Sterilizers
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Ham Boilers
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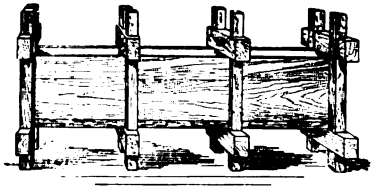
Kilns
Lead Lined Tanks
Malt Tanks
Metal Melting Furnaces
Milk Machinery
Mixers
Mufflers
Oil Filters
Oil Washers
Oyster Washers
Pasteurizers
Percolators
Pie Racks
Pipe (Riveted)
Plating Tanks
Rubber Lined Tanks
Sand Blast Tanks
Shipping Drums
Sprayers, Fruit Trees
Sprayers, Paint
Solvent Recovery Stills
Steam Kettles
Sterilizers
Stills
Smoke Stacks
Tanks (Air, Gas, Oil and Water)
Tumblers
Vacuum Pans
Varnish Tanks
Vegetable Washers
Vulcanizers
Washers for Canneries
Water Stills

We are prepared to do plate work of every description for Ships, Mills, Mines, Factories, Plantations, Chemical Works, Paint Works, Paper Mills, Abattoirs, Fertilizer Plants, Water Works, Government Work, Sewage Systems, etc. We also make and design Special Apparatus and Machinery to meet the progress in all lines of business. We have the facilities for improving yours.

TANKS TOWERS CYLINDERS



We build any shape or size tanks, acid towers, wood and steel tank towers, stave pipe, etc. Send us your inquiries.

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BALTIMORE, MD.

The largest works of its kind in the South

Chemical Equipment

OF

IRON OR STEEL

We are the sole licensees in America for Tantiron castings which are produced from ingots shipped from England by the Lennox Foundry Company—sole producers of Tantiron. The shipping conditions produced by the war are such that it is practically impossible to maintain a supply of Tantiron castings.

We have entered into a cooperative agreement with the Pacific Foundry Company of San Francisco —the originators and producers of the well known and highly successful Acid Resisting Iron "Corrosiron"

Bethlehem Foundry & Machine Co.

129 FRONT STREET
SOUTH BETHLEHEM, PA.

NEW YORK OFFICE
ROOM 928 SINGER BLDG.

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J. GEORGE LEHMAN, Vice-President and General Manager
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SWENSON EVAPORATOR CO.

Cable Address: "Evaporator Chicago"

945 Monadnock Block CHICAGO

Products: Evaporators, Single and Multiple Effects; Vacuum Pans; Leaching Batteries; Beet Sugar Machinery; Pulp Mill Machinery; Special Chemical and Waste Product Machinery.

Substances Handled: Any liquor condensed in commercial quantities.

Sizes of Evaporators: Sizes regularly range from 100 to 10,000 gallons per hour evaporation.

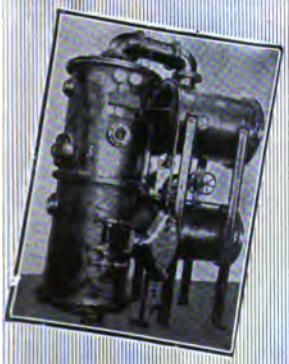
Types of Evaporators: We manufacture five standard types of evaporators; however, when our regular types do not meet the conditions efficiently, our Engineers evolve special types or combinations of types to produce the desired results. Our Catalogue on Evaporators deals with Type in detail.

Swenson Service: Economy, durability, accessibility, low repairs, easy operation and maximum simplicity in design, consistent with the attaining of these results, characterize Swenson Service. We can refer to more than 1000 evaporator installations over half of which have been repeat orders. More than a quarter of a century of experience is at your command.

Specialists: Specialists in processes utilizing waste solutions or new chemical products.

Catalogue

Our catalogue contains valuable information and tables as well as descriptions of our machines.



Built for Long Life, Hard Service, and No Worry to the Owner

ZAREMBA Evaporators are in use throughout the U. S. and in all quarters of the Globe

"By their works you shall know them"

Look up our record and remember that what we have done for others we can do for you.

The Evaporators illustrated, reading from top to bottom, are the *Zaremba Patent Evaporator* for the general run of work. *Crystalizing Evaporator* for crystalizing and precipitating solutions and *Rapid Circulator* for foaming and delicate liquors.

ZAREMBA COMPANY
BUFFALO, U. S. A.

EVAPORATOR — OF — ZAREMBA A TYPE FOR INSTALLATIONS MERIT — EVERY PURPOSE

The "Perfect" Barrel
30-55 Gallon

The "Perfect"
Metal Bilge Barrel

is a most satisfactory shipping container for all kinds of oils, acids, chemicals, and also for powders, pastes, heavy oils, etc.

It is made in two styles: The tight Barrel, which is designed for gasoline, alcohol, etc., and the Removable Head type, which is designed for solids and semi-solids and heavy liquids.

It is made of two sizes: 30 and 55 gallon—of either 12 or 13 gauge steel.

The seams are all heavily oxy-acetylene welded, the side seam being welded both inside and out.

The Chime is reinforced with a heavy steel band rolled entirely around the head, protecting it from all blows.

The Barrel is in the bilge shape, which adds to its strength, makes it very much easier to handle on account of the leverage that can be furnished.

It is a "One-Man" Package: i. e. it can be up-ended when filled, by one man with ease.

Through its greater durability and its greater ease of handling, it will show great economy over the ordinary shipping container.

The Removable Head design is patented—will make an absolutely tight closure under air pressure, and is so arranged that the head can be quickly removed or replaced.

This barrel is in use by some of the largest firms in the country.

Our new Catalogue will be gladly sent on request

Detroit Range Boiler Co.

607-23 Twenty Fourth Street

Detroit, Mich.

The "Perfect" Barrel
With Full Removable Head Tight for Liquids or Solids

UNITED LINED TUBE & VALVE COMPANY

BOSTON, MASS.

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NEW YORK, N. Y., United Lead Co., 111 Broadway
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Lead or Tin Lined

Iron Pipe **Brass Pipe** **Valves**
Copper Pipe **Fittings**
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Special Apparatus **Drums**
Hard Lead Centrifugal Pumps

Brass Lined Iron Pipe
Copper Lined Iron Pipe
Lead or Tin Covered Pipe and Fittings
Coils—Covered or Lined
Chemical Sheet Lead and Chemical Lead Pipe

Hard Lead Centrifugal Pump

For acid and corrosive liquids. Adapted for connecting pipes 1" to 4" diameter. The highest grade acid pumps on the market. Designed for operation by pulleys or direct motor connections. Prices upon application.

"UNITED" LINED PIPE

"United" Pipe, as its name implies, is a seamless tube of either lead, pure block tin, brass or copper, thoroughly and inseparably united throughout its entire length to an outer tube of wrought iron, steel, etc.

The lining is a seamless tube with perfectly smooth interior surface and of any desired thickness. This lining is so perfectly united to the outer pipe that it is impossible to separate without melting.

To demonstrate the truth of this statement we will be pleased to furnish sample of our pipe upon request.

SPECIAL "UNITED" ACID VALVES

Our acid-resisting valves are heavily lined throughout with a special acid-resisting alloy, and the seats made of a composition which, being harder than lead, is better adapted to withstand the cutting or wear likely to occur at this point.

These valves being constructed of iron and brass, same as ordinary valves, except as regards the interior, make the strongest acid valves on the market. They are not liable to be broken in transportation, during installation or in actual use, as is the case with valves made wholly of lead composition metal, which is brittle and easily broken, particularly at the flanges.

The flanges on our valves are extra strong and will last indefinitely.

We guarantee all of our products

Complete Catalog of "United" Lined Products mailed on request

STURTEVANT MACHINERY

FOR THE

CHEMICAL INDUSTRIES

CRUSHING, GRINDING, PULVERIZING, SCREENING, SAMPLING, SACKING, WEIGHING and MIXING MACHINERY

Catalogue

JAW CRUSHERS ..... **No. 62**
of cast iron, cast steel and plate steel construction for coarse, intermediate and fine rock and ore crushing.

"OPEN DOOR" ROTARY CRUSHERS ..... **No. 63**
for soft and moderately hard materials such as gypsum, lime, phosphate, shale, coal, talc, coke, caustic, etc. Crush coarse or fine.

BALANCED CRUSHING ROLLS ..... **No. 65**
for coarse or fine reduction. Built in many sizes, for hard or soft substances, side and end adjustments.

HAMMER-BAR PULVERIZERS ..... **No. 84**
for pulverizing soft and moderately hard substances such as limestone, coal, shale, clay, chemicals, etc. Especially suited for grinding limestone for application to the soil.

HINGED HAMMER PULVERIZERS ..... **No. 86**
for pulverizing fertilizer, peat, shells, clay, glue, rosin, or other soft or fibrous materials.

"OPEN DOOR" RING-ROLL MILLS ..... **No. 79**
The "Standard" pulverizers for hard or moderately hard substances. Range of output, from 10 to 100 mesh.

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for the fine grinding of talc, gypsum, colors, lime, shale, clay, etc., built in both vertical and horizontal models.

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Universally used on a great variety of materials, screening many on which other separators have failed.

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for mixing complete fertilizers. The only correctly designed mixer, which produces a perfectly mixed output.

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complete, ready to set up, including elevators, chutes, spouts, valves, bins, mixer, pulverizer, scales, etc. All steel—Dustless and Fire-Proof.

AUTOMATIC SCALES—WEIGHING AND SACKING MACHINES ..... **No. 81**
for Fertilizer, Grain, Feed, Coffee, Rice, Sugar, etc. Built in several styles. Range of work ½ to 200 lbs.

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for crushing coal to ¼ inch and automatically removing from 5 to 15 per cent. of the sample at the time. Used by large purchases of coal on the B. T. U. basis.

LABORATORY CRUSHING, GRINDING AND SCREENING MACHINERY ..... **No. 67**
for assayers, schools and laboratories. Large range of output, accurate products and quick accessibility for cleaning and adjustments.

ELEVATORS ..... **No. 61**
all steel, dustless, strong, durable, for all Sturtevant Machinery and Mixing Units, also built to order after user's designs.

All Machines Strictly "High Grade" and All Sold on Approval. Cat. No. 60

STURTEVANT MILL CO., BOSTON, MASS.

DURIRON

Acid-Alkali-Rust-Proof

Apparatus

DURIRON is a particularly hard metal which is successfully cast in various standard forms such as tanks, kettles, (plain or jacketed) pipe and fittings, cocks, valves, manifolds, blowers, centrifugal and reciprocating pumps, ejectors, cascade basins, Hough nitric acid condensers, stirrers, etc., etc.

Practically unaffected by Nitric, Sulphuric, Acetic and most other Acids or Alkalies, of any strength.

Consider these tests—

In 25% Sulphuric—one year—no loss.

In 25% Nitric—one year—loss only 11/1000 of 1%.

Complete apparatus—and Standard and Special Castings furnished promptly, from our own or customer's patterns.

There is some process in nearly every modern industry where Duriron can be used to advantage—Tell us your problems and avail of the experience of our engineering staff.

Send for a sample—make your own test

Duriron Castings Company,

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90 West St.

Dayton, Ohio

CHICAGO
Otis Bldg.

2029

ACID EGGS, 36 to 400 gallons.
ACID RESISTING enameled Kettles with or without power mixers, 5 to 300 gallons.
AUTOCLAVES, 1 to 150 gallons.
CALDRONS, 5 to 1,000 gallons.
CONDENSERS, lead, copper, iron and enameled, for any purpose.
GAS FURNACES.
KETTLES for all purposes.
EVAPORATORS.
STILLS and CONDENSERS.
TANKS (cast iron), all sizes.
VACUUM PANS.

WE SPECIALIZE ON ACID RESISTING ENAMELED-WARE FOR CHEMICAL WORK.

The J. L. Mott Iron Works

GENERAL OFFICES AND PLANT, TRENTON, N. J.

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BALL BEARING CENTRIFUGALS

FOR BIG PRODUCTION

SIZES

30″ 36″ 40″

DIAMETER

A suspended machine—An improved Weston.
Free to swing—but it does not swing.
Bottom discharge—large opening.
Friction pulley that will accelerate to 1000 R. P. M. in 50 seconds.
A brake that will stop it in 15 seconds.
An automatic idler—saves wear on belts; insures high efficiency; keeps belt tight.
No rubber buffers used—is self steadying.
Latest product of nearly half a century's experience in making Centrifugal Machines.

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Engineering Factors

Acid Eggs
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Ball Mills
Evaporators
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Kettles
Monte-jus
Pans
Pebble Mills
Stacks
Steel Plate Work
Tanks
Water Stills
Vats

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Pneumatic Conveying Installations

Receiving, Handling and Loading
of any kind of bulk material

AUTOMATIC DUST RECOVERY

Air, Gases and Vapors of any temperature
cleaned by Original Methods

Reclamation of Metallurgical Fumes a Specialty

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Western Representative
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Self-Balancing
CENTRIFUGALS

Standard Stock Sizes and Types

Self-Balancing Type

Suspended Centrifugals

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Dehydrating Centrifugals

Nitrating Centrifugals

Solid Curb Centrifugals

Sugar Centrifugals

WITH OR WITHOUT BOTTOM DISCHARGE

All Tolhurst Centrifugals are equipped with patent adjustable idlers permitting engine, motor or counter shaft drive from floor or ceiling

Centrifugals scientifically designed, built and installed to meet YOUR special requirements.

Suspended Centrifugal

SEND FOR CATALOGUE "C. D."

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ACIMET

TRADE MARK REGISTERED

VALVES

PATENTED

RENDER 100% EFFICIENCY in handling sulphuric acid and other corrosive liquids. Sturdily built for hard service and long life. Let us show you. We are at your service and have a liberal trial proposition to offer you.

Get yours now

Clebrium

Patent Pending

Perfectly resistant to corrosion.
It is not brittle.
It may be machined in the usual way.
Absolutely unattacked by Nitric Acid, Sulphuric Acid, Acetic Acid, and many other acids, dilute, concentrated or mixed.

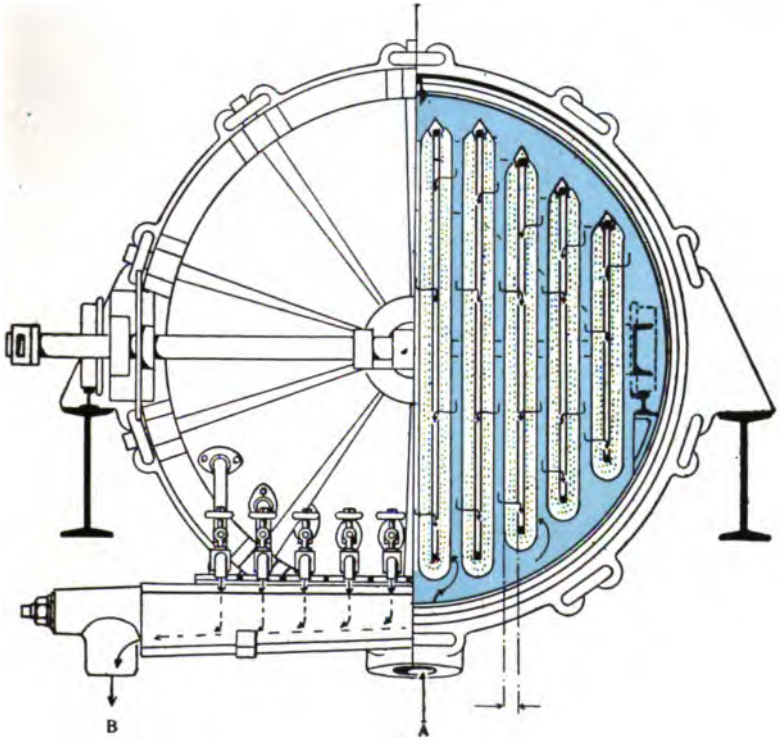
Ask us about it

THE CLEVELAND BRASS MFG. CO.

4622 Hamilton Ave. **Cleveland, Ohio**

KELLY FILTERS

——PATENTED——



USED IN ALL INDUSTRIES
BUILT TO SUIT ALL REQUIREMENTS
MADE OF ANY METAL SPECIFIED

EMIL E. LUNGWITZ

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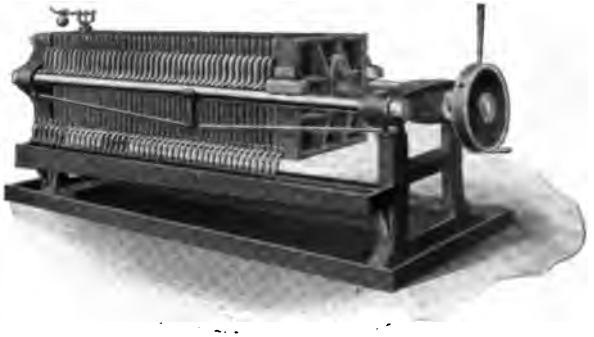
90 West Street, New York, N. Y.

United Filters Corporation, Successors to the Kelly Filter Press Company, Salt Lake City, Utah

THE

Sperry Filter Press



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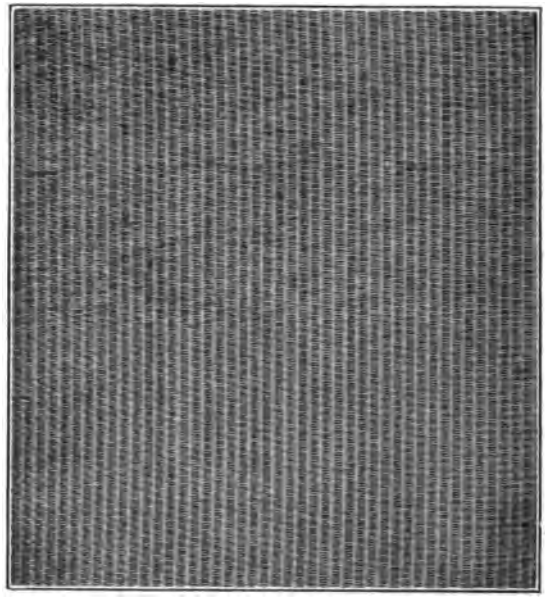

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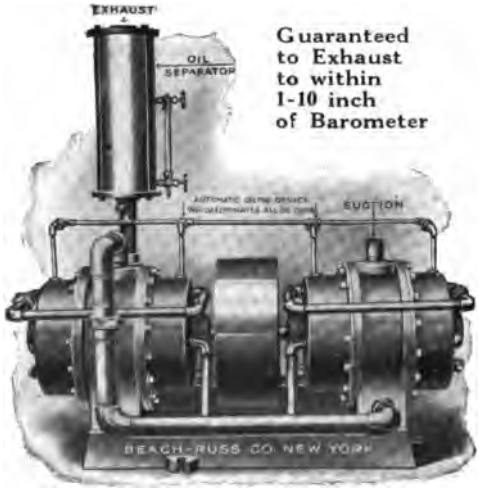

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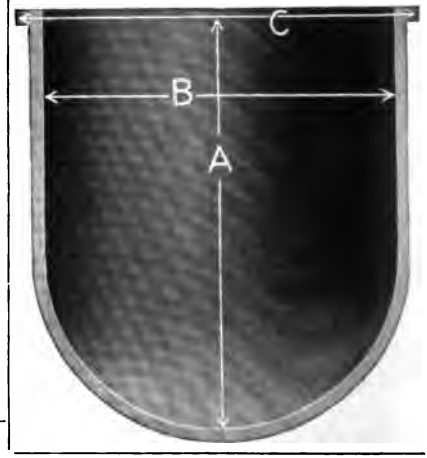

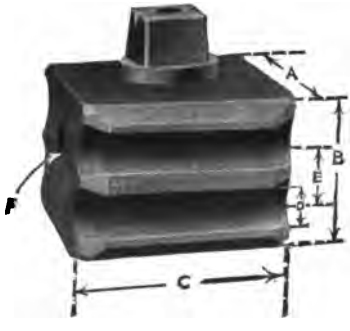

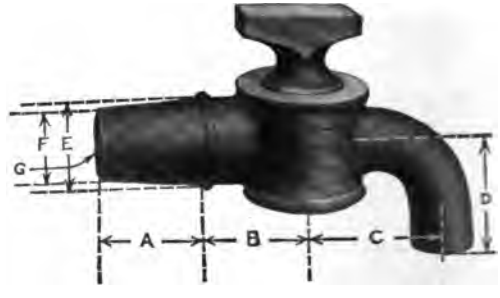

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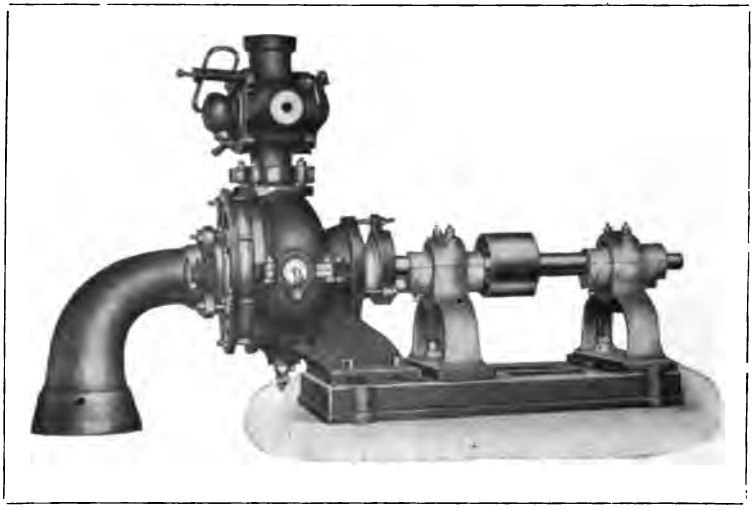

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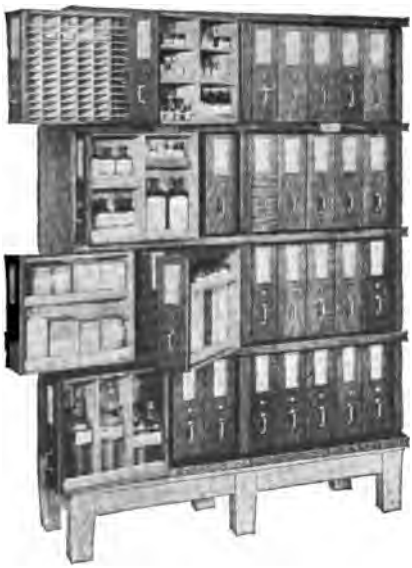

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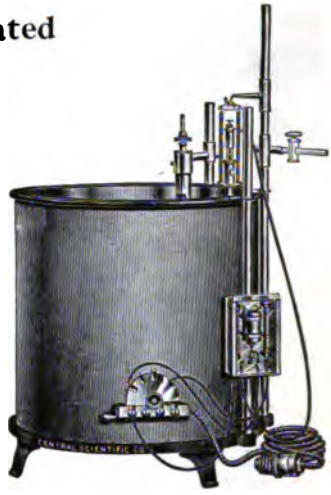

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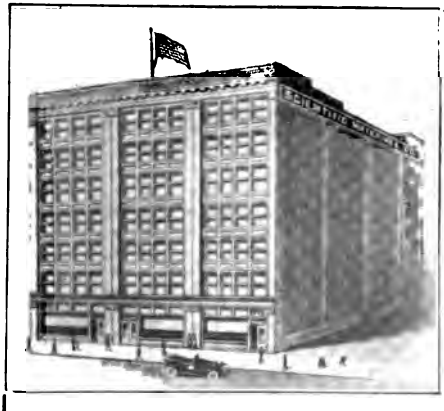

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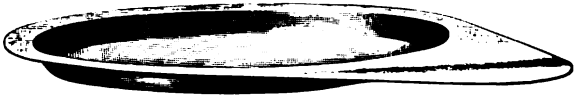

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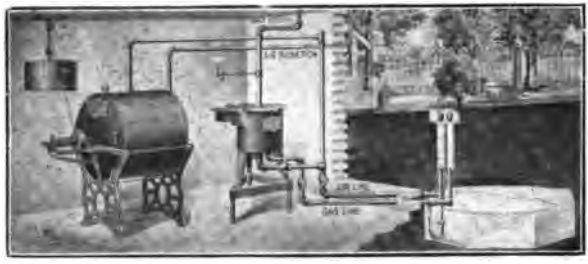

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